**ORDER NO.DSD0403005C2**

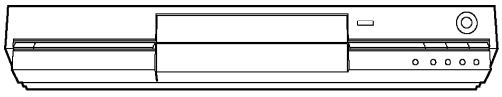
# DVD Video Recorder

# DMR-E85HEB / DMR-E85HEG

## Colour

## (K).....Black Type

## (S).....Silver Type



**Notes: The part of DVD Drive (VXY1814) is listed separately.**
**Please refer ORDER No. RAM0402001C0**

When replacing with Digital P.C.B. or HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, programme in the HDD will be lost.
In detail, please refer to each content in this service manual.

## SPECIFICATIONS

**Specifications**

| | | |
|---|---|---|
| Power supply | AC220-240 V, 50 Hz | |
| Power consumption | 38 W | |
| Recording system | DVD video recording format (DVD-RAM),<br>DVD video format (DVD-R) | |
| Optical pick-up | System with 1 lens, 2 integration units (658 nm wavelength for DVDs, 795 nm wavelength for CDs) | |
| Recordable discs | ・12 cm 4.7 GB DVD-RAM discs<br>・12 cm 9.4 GB DVD-RAM discs<br>・8 cm 2.8 GB DVD-RAM discs<br>・12 cm 4.7 GB DVD-RAM discs (Ver. 2.1/3X-SPEED DVD-RAM Revision 1.0)<br>・8 cm 1.4 GB DVD-R discs (for General Ver. 2.0)<br>・12 cm 4.7 GB DVD-R discs (for General Ver. 2.0)<br>・12 cm 4.7 GB DVD-R discs (for General Ver 2.0/ 4X-SPEED DVD-R Revision 1.0) | |
| Recording time | ・Maximum 8 hours (using 4.7 GB disc)<br>XP: Approx. 1 hours<br>SP: Approx. 2 hours<br>LP: Approx. 4 hours<br>EP: Approx. 6 hours or 8 hours<br>・Maximum 142 hours<br>(with built in 80 GB HDD)<br>XP: Approx. 17 hours<br>SP: Approx. 34 hours<br>LP: Approx. 68 hours<br>EP: Approx.106 hours or 142 hours | |
| Region number | Region No.2 | |
| Discs played | ・12 cm 4.7 GB DVD-RAM discs<br>・12 cm 9.4 GB DVD-RAM discs<br>・8 cm 2.8 GB DVD-RAM discs<br>・12 cm 4.7 GB DVD-RAM discs (Ver. 2.1/3X-SPEED DVD-RAM Revision 1.0)<br>・8 cm 1.4 GB DVD-R discs (for General Ver. 2.0)<br>・12 cm 4.7 GB DVD-R discs (for General Ver. 2.0)<br>・12 cm 4.7 GB DVD-R discs (for General Ver 2.0/ 4X-SPEED DVD-R Revision 1.0)<br>・DVD-VIDEO discs<br>・DVD-Audio discs<br>・CD-Audio discs (CD-DA)<br>・Video CD discs<br>・CD-R/ CD-RW discs (CD-DA, Video CD, MP3 formatted discs) | |
| Built-in HDD Capacity | 80 GB | |
| Drive Unit | High Speed Drive (correspond to 4 times speed with DVD-R disc and 3 times speed with DVD-RAM disc) | |
| Video system | | |
| TV system | E85HEG | SECAM(Only Input)/PAL system, 625 lines, 50 fields /NTSC system, 525 lines, 60 fields |
| | E85HEB | PAL system, 625 lines, 50 fields /NTSC system, 525 lines, 60 fields |
| Recording system | MPEG2 (Hybrid VBR) | |
| Video Input (※): E85HEG Only | Video In: (SECAM(※)/ PAL/NTSC) | AV1/AV2(21pin x 2), AV3/AV4(pin jack x 2) 1.0Vp-p ; 75Ω |
| | S-Video In: (SECAM(※)/ PAL/NTSC) | AV2(21pin), AV3/AV4(S connector x 2) Y:1.0Vp-p ; 75Ω, C:0.3Vp-p ; 75Ω |
| | RGB In(PAL): | AV2(21pin ) 0.7Vp-p ; 75Ω |

| | | |
|---|---|---|
| Video Output | Video Out: (PAL/NTSC) | AV1/AV2(21pin x 2), LINE(pin jack x 1) 1.0Vp-p ; 75Ω |
| | S-Video Out: (PAL/NTSC) | AV1(21pin ), S connector x 1 Y:1.0Vp-p ; 75Ω, C:0.3Vp-p ; 75Ω |
| | RGB Out: (PAL) | AV1(21pin ), 0.7Vp-p ; 75Ω |
| | Component video out: (NTSC 480P/480I) (PAL 576P/576I) | Y: 1.0Vp-p ; 75Ω(pin jack)<br>PB: 0.7Vp-p ; 75Ω(pin jack)<br>PR: 0.7Vp-p ; 75Ω(pin jack) |
| Antenna reception system | E85HFG | |
| | PAL-BGH, SECAM-BG (CCIR) | VHF: CH E2 - CH E12, CH A - CH H2 (For Italy)<br>UHF: CH 21 - CH 69<br>CATV: CH S01- CH S05(S1- S3), CH S1- CH S20(M1- U10), CH S21- CH S41 |
| | SECAM-L,L' (France) | VHF: CH 2- CH 10<br>UHF: CH 21 - CH 69<br>CATV: CH B- CH Q(100.5 - 299.5MHz), CH S21- CH S41 (299.5 - 467.25MHz) |
| | E85HEB | |
| | PAL-I | UHF: CH 21 - CH 68 |
| RF Converter Output | E85HEB | UHF: CH 21 - CH 68, 71 ± 3dBuV 75Ω |
| | E85HEG | Not provided |
| Audio system | | |
| Recording system | Dolby Digital 2ch, Linear PCM (XP mode, 2 ch) | |
| Analog Input | AV1/AV2(21pin x 2), AV3/AV4(pin jack x 2)<br>Standard input: 0.5 Vrms<br>Full scale: 2.0 Vrms at 1KHz<br>Input impedance: More than 10KΩ | |
| Analog Output | AV1/AV2(21pin x 2), LINE(pin jack x 1)<br>Standard output: 0.5 Vrms<br>Full scale: 2.0 Vrms at 1KHz<br>Output impedance: Less than 1.0KΩ | |
| Number of channels | Recording: 2 channels<br>Playback: 2 channels | |
| Digital Output | Digital Audio Optical Output Connector (PCM,Dolby Digital,DTS,MPEG) | |
| Dimensions | Approx. 430 (W) x 79 (H) x 274 (D) mm<br>[Approx. 16 15/16" (W) x 3 1/8" (H) x 10 13/16" (D)]<br>(excluding protrusions) | |
| Mass | Approx. 4.4 kg (9.70 lbs) | |
| Operating temperature | 5°C - 40°C (41 F - 104 F) | |
| Operating humidity range | 10 %-80 % RH (no condensation) | |
| Clock unit | Quartz-controlled 12-hour digital display | |
| LASER Specification (Class I LASER Product) | | |
| Wave length | 795 nm, 658 nm | |
| Laser power | No hazardous radiation is emitted with the safety protection. | |
| Power consumption in standby mode | approx. 3.0 W | |
| Solder | These model use lead free solder (PbF). | |

**Notes : Mass and dimensions are approximate.**
**Specifications are subject to change without notice.**

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Panasonic

# 1. Safety precautions

## 1.1. General guidelines

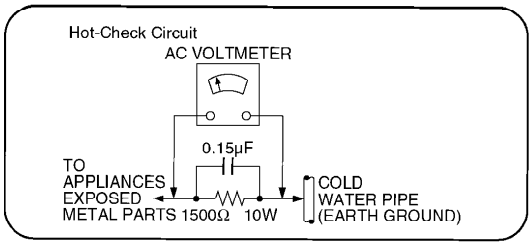
1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

### 1.1.1. Leakage current cold check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the

**reading must be ∞.**

**Figure 1**




### 1.1.2. Leakage current hot check / (See Figure 1 .)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliampere. In case a measurement isoutside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

# 2. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

**Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-sandsemiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).**

1. **Immediately before handling any semiconductor component or**

**semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**

2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   **Caution**

   **Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.**
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficientto damage an ES device).**

**IMPORTANT SAFETY NOTICE**

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

# 3. Precaution of Laser Diode

**CAUTION:**

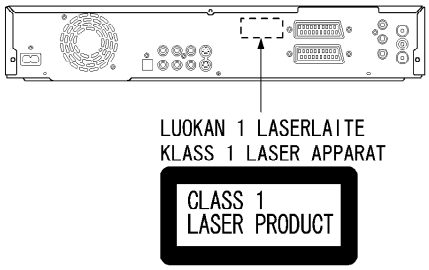
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 795 nm/658 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

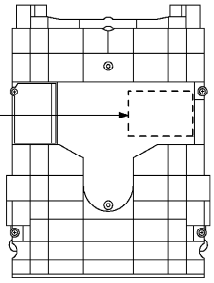
**ACHTUNG:**

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 795 nm/658 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.



DANGER - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO! - AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING - SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
AUVAHSEL - SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注 意 - 打开时有可见及不可见激光辐射，避免激光束照射。
注 意 - ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接浴びつ、触れたりしないでください。
RQLS1033



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

# 4. Handling the Lead-free Solder

## 4.1. About lead free solder (PbF)

**Distinction of PbF P.C.B.:**
**P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.**

**Caution:**

**- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).**
**- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).**
**- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the**

soldering points with the Pb free solder until it melts enough.

# 5. Each Buttons

# 6. Taking out the Disc from RAM-Drive Unit when the Disc cannot be ejected by OPEN/CLOSE button

## 6.1. Forcible Disc Eject

### 6.1.1. When the power can be turned off.

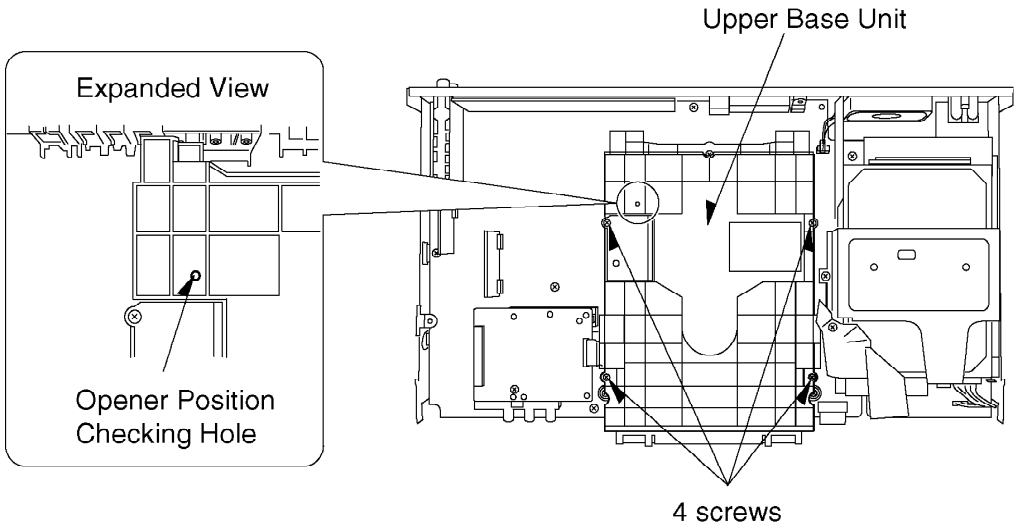
1. Turn off the power and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

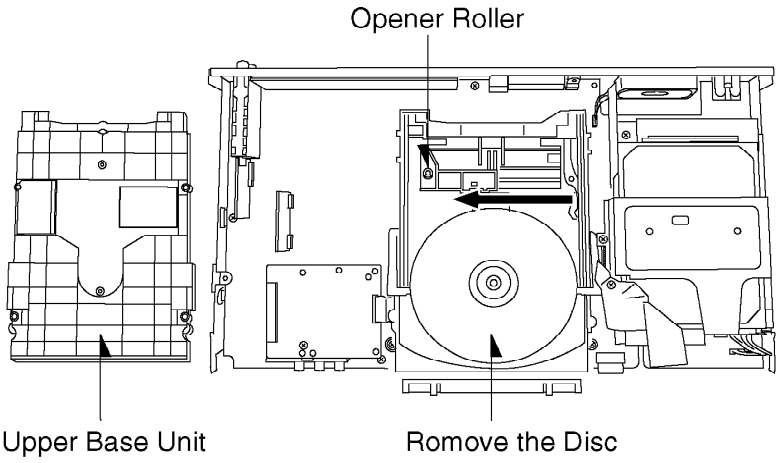
### 6.1.2. When the power can not be turned off.

1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

## 6.2. When the Forcible Disc Eject can not be done.

1. Turn off the power and pull out AC cord.
2. Remove the Top Case.
3. Remove the Front Panel.
4. Remove 4 screws and Upper Base Unit from DVD-RAM Drive.
5. Take out the disc and put the Opener Roller on fully position for direction of Arrow.
6. Put the Upper Base Unit so that the Opener Roller is inserted into the groove.
7. Check center of Opener Roller is seen through the Opener position Checking Hole, and tighten 4 screws.




# 7. Service Explorer

**Confirm “RAM-Drive Last Error” in Service Mode**

**Execute Service Mode**

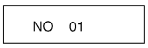
**1. Press [STOP], [TIME SLIP] and [OPEN/CLOSE] simultaneously for 5 seconds when P-off.**
**FL Display:**

SERVICE MODE

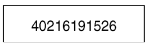
***After finishing display “(7). Factor of Drive Error occurring”, press [0] [2] ~[9] [9] keys of the Remote Controller so that 99 memories can be displayed as maximum.**

**2. Press [4] [2] keys of remote controller.**

**Example of FL Display:**
**(1) Error Number is displayed for 5 seconds.**

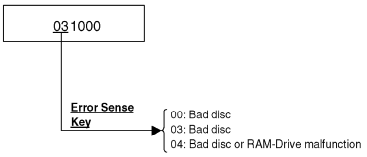



**(2) Time when the error has occurred is displayed for 5 seconds.**



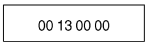

The error has occurred at 2004(year)/Feb.(month)/16(day)/19(hour):15(minute):26(second)

**(3) Last Drive Error (1/2) is displayed for 5 seconds.**



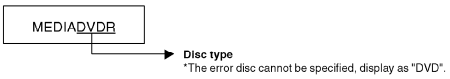

**When above error codes are displayed, confirm operation with Panasonic RAM disc or Panasonic DVD-R disc.**
***If the operation is OK, judge the error is due to media.**
***If the operation is NG and symptom as BLOCK NOISES and so on that are particular symptom of Digital appears, judge the error is due to RAM-Drive or Digital PCB.**

**(4) Last Drive Error (2/2) is displayed for 5 seconds.**

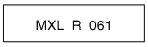



*This error code is unnecessary for service.

**(5) Error occurring Disc type is displayed for 5 seconds.**




**(6) Disc Maker's ID is displayed for 5 seconds.**




**Example of Disc Maker's ID:**
**DVD-R Disc**

| No. | FL Display (Disc Maker's ID) | Disc Maker | Country |
|---|---|---|---|
| 1 | MEI | Panasonic | Japan |
| 2 | PVC | Pioneer | Japan |
| 3 | MCC | Mitsubishi Chemical Corporation | Japan |
| 4 | TDK | TDK | Japan |
| 5 | MXL | Maxell | Japan |
| 6 | MCI | MITUI CHEMICALS | Japan |
| 7 | JVC | Victor JVC | Japan |
| 8 | TAIYOYUDEN | Taiyo yuden | Japan |
| | TYG | | |
| 9 | GSC | Giga Storage | Taiwan |
| 10 | PRODISC | Prodisc | Taiwan |
| 11 | PRINCO | PRINCO | Taiwan |
| 12 | RITEK | RITEK | Taiwan |
| 13 | OPTDISC | OPTDISC | Taiwan |
| 14 | LEAD DATA | LEAD DATA | Taiwan |
| 15 | CMC | CMC | Taiwan |
| 16 | AUVISTAR | AUVISTAR | Taiwan |

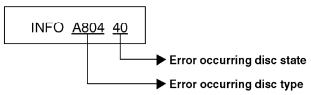
| No. | FL Display (Disc Maker's ID) | Disc Maker | Country |
|---|---|---|---|
| 17 | ACER | Acer | Taiwan |
| 18 | VIVASTAR | VIVASTAR | Switzerland |
| 19 | LGE | LG Electronics | Korea |

**DVD-RAM Disc**

| No. | FL Display (Disc Maker's ID) | Disc Maker | Country |
|---|---|---|---|
| 1 | MEI | Panasonic | |
| 2 | MATSUSHITA | Panasonic | Japan |
| 3 | MXL | Maxell | Japan |
| 4 | PRODISC | Prodisc | Taiwan |
| 5 | OPTDISC | OPTDISC | Taiwan |
| 6 | CMC | CMC | Taiwan |

***Since an display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**
**Please make it reference as an example of a display.**

**(7) Factor of Drive Error occurring is left displayed**




**Error Occurring Disc Type**

| FL Display | Disc Type |
|---|---|
| 00 | DVD-ROM/Video |
| 01 | Audio-CD |
| 02 | 2.6GB DVD-RAM |
| 03 | 4.7GB DVD-RAM |
| 04 | DVD-R |

**Error Occurring Disc State**

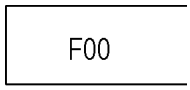
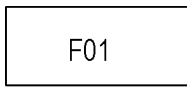
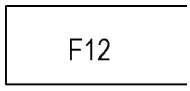
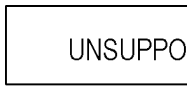
| FL Displays (Hexadecimal) | Description | | | |
|---|---|---|---|---|
| | Disc distinction state | Cartridge disc state | Cartridge disc state | Disc size |
| 00 | OK | With cartridge | Has not been opened yet. | 12 cm |
| 10 | OK | With cartridge | Has not been opened yet. | 8 cm |
| 20 | OK | With cartridge | Has been opened. | 12 cm |
| 30 | OK | With cartridge | Has been opened. | 8 cm |
| 40 | OK | Bare | Has not been opened yet. | 12 cm |
| 50 | OK | Bare | Has not been opened yet. | 8 cm |
| 60 | OK | Bare | Has been opened. | 12 cm |
| 70 | OK | Bare | Has been opened. | 8 cm |
| 80 | NG | With cartridge | Has not been opened yet. | 12 cm |
| 90 | NG | With cartridge | Has not been opened yet. | 8 cm |
| A0 | NG | With cartridge | Has been opened. | 12 cm |
| B0 | NG | With cartridge | Has been opened. | 8 cm |
| C0 | NG | Bare | Has not been opened yet. | 12 cm |
| D0 | NG | Bare | Has not been opened yet. | 8 cm |
| E0 | NG | Bare | Has been opened. | 12 cm |
| F0 | NG | Bare | Has been opened. | 8 cm |

# 8. Self-Diagnosis and Special Mode Setting

## 8.1. Self-Diagnosis Functions

**Self-Diagnosis Function provides information for errors to service personnel by "Self-Diagnosis Display" when any error has occurred.**
**U14, H** and F** are stored in memory and held.**
**Display on FL will be cancelled when the power is turned off or AC input is turned off during self -diagnosis display is ON.**

| Error Code | Diagnosis contents | Description | Monitor Display | FL disp |
|---|---|---|---|---|
| U12 | Remote control code error | Display appears when main unit and remote controller codes are not matched. | No display | REMOTE [<br>"*" is remote c<br>code of the ma<br>Display for 5 s |
| U14 | Abnormal inner temperature detected | Display appears when the drive temperature exceeds 70°C.<br>The power is turned off forcibly.<br>For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedfor the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well. | No display | U14<br>"U14" is displa<br>minutes. |
| U99 | Hang-up | Displayed when communication error has occurred between Main microprocessor and Timer microprocessor. | No display | U99<br>Displayed is le<br>[POWER] key i |
| H01 | Inoperative fan motor | Display appears when inoperative fan motor is detected after powered on.<br>The power is turned off when detecting. | No display | H01<br>Displayed is le |

| Error Code | Diagnosis contents | Description | Monitor Display | FL disp |
|---|---|---|---|---|
| F00 | No error information | Initial setting for error code in memory<br>(Error code Initialization is possible with error code initialization and main unit initialization.) | No display |  <br>Displayed is le |
| F01 | Drive hardware error | Display appears when drive unit error is detected. The event is saved in memory. | No display |  <br>Displayed is le |
| F12 | Initialization error when main microprocessor is started up for program recording | Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.<br>The power is turned off when detecting. | No display |  <br>Displayed is le |
| UNSUPPORT | Unsupported disc error | *An unsupported format disc was played, although the drive starts normally.<br>*The data format is not supported, although the media type is supported.<br>*Exceptionally incase of the disc is dirty. | “This disc is incompatible.” |  <br>Display for 5 s |
| NO READ | Disc read error | *A disc is flawed or dirty.<br>*A poor quality failed to start.<br>*The track information could not be read. | “Cannot read. Please check the disc.” | |
| HARD ERR | Drive error | The drive detected a hard error. | “DVD drive error.” | Display for 5 s<br> |
| SELF CHECK | Restoration operation | Since the power cord fell out during a power failure or operation, it is under restoration operation.<br>*It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive. | No display | |

| Error Code | Diagnosis contents | Description | Monitor Display | FL disp |
|---|---|---|---|---|
| Full Program | 32 programs are already set. | 32 programs are already set. | No display | PROG FULL |
| HDD SLEEP | In order to extend HDD life, the HDD is in SLEEP (not activated) mode. | If there is no disc in the unit, the HDD will go into SLEEP mode after there has been no operation for 30 minutes or longer.<br><br>*While in SLEEP mode play or recording may not begin rightaway because the HDD takes time to be re-activated. | “HDD SLEEP“ is displayed for 3 seconds. | HDD S |

## 8.2. Special Modes Setting

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | Front K |
| TEST Mode | *All the main unit's parameters (include tuner) are initialized. | TEST AV1 | Press [SKIP (RE SLIP] and [OPEI keys simultaneo five seconds wh is off. |
| Service Mode | Setting every kind of modes for servicing.<br>*Details are described in “8. 3. Service Mode ”. | SERVICE MODE | When the power press [STOP], [T and [OPEN/CLO simultaneously seconds. |
| Rating password | The audiovisual level setting password is initialized to “Level 8”. | INIT | Open the tray, a [SKIP (REV)] an (FWD)] simultan five seconds. |
| Forced disc eject | Removing a disc that cannot be ejected.<br>The tray will open and unit will shift to P-off mode.<br>*When Timer REC is ON or EXT-LINK is ON, execute " Forced disc eject " after releasing TimerREC or EXT-LINK.<br>*This command is not effective during "Child lock" is ON. | The display before execution leaves.<br>********** | When the power press [STOP] ar keys simultaneo five seconds. |

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | Front K |
| Child lock/unlock | Set or release “Child Lock”. | X HOLD | Press [ENTER] a [RETURN] by re controller simul until [X-HOLD] i displayed. |
| NTSC/PAL system select | To switch PAL/ NTSC alternately. | The display before execution leaves. ********** | When the powe E mode), press and [OPEN/CLO simultaneously seconds. |
| Forced power-off | When the power button is not effective while power is ON, turn off the power forcibly.*When Timer REC is ON or EXT-LINK is ON, execute “Forced Power-off” after releasing Timer RECor EXT-LINK.<br>Action:<br>The tray will open, and the power will turn off. | Display in P-off mode. | Press [Power] k than 10 seconds |
| Aging | Perform sequence of modes as * Aging Description shown below continually. | Display following the then mode. | When the powe press [CH DOW SLIP] and [OPE CLOSE] simulta for over five sec less than 10 sec *The [REC MOD be set to EP or I *Whenthe unit h up because of p keys for over 10 once turn off the and re-execute t command.<br>“When releasing mode, press [PC key. |

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | Front K |
| Demonstration lock/unlock | Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by “Main unit initialization” of service mode. | *When lock the tray. LOCK “LOCK” is displayed for 3 seconds. | When the powe press [STOP] ar [POWER] keys simultaneously seconds. |
| | | *When unlock the tray. UNLOCK “UNLOCK” is displayed for 3 seconds. | When the powe press [STOP] ar [POWER] keys simultaneously seconds. |
| | | *When press OPEN/ CLOSE key while the tray being locked. LOCK Display “LOCK” for 3 seconds. | Press [OPEN/CL while the tray b locked. |
| ATP re-execution | Re-execute ATP. | Display at ATP executing. ********** | When the powe E mode), press and [CH DOWN] simultaneously seconds. |
| Progressive initialization | The progressive setting is initialized to Interlace. | The display before execution leaves. ********** | When the powe E mode), press and [TIME SLIP] simultaneously seconds. |

**Aging Contents (Example):**

Format→REC→Play→STOP→Play→Skip(R)→Cue
↑ ↓
Stop←Play←R-Slow←Slow←Pause←Play←Rev
*The unit repeats above sequence.

## 8.3. Service Modes

**Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.**

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| Release Items | Item of Service Mode executing is cancelled. | SERVICE MODE | Press [0] [0] or [ service mode. |
| Error Code Display | Last Error Code of U14/H/F held by Timer is displayed on FL. *Details are described in “8. 1. Self-Diagnosis Functions”. | ♣□□<br>*♣ shows U/H/F.<br>□□ shows number. | Press [0] [1] in s mode |
| ROM Version Display | Region code, MAIN firm version, TIMER firm version and DRIVE firmware versions are displayed on FL for five seconds per each version in order, but ROM version will be left displayed. | REGION*<br>MAIN ******<br>TIMER******<br>DRIVE ****<br>ROM * ***<br>*<br>“ ”are version displays. | Press [0] [2] in s mode |

<table>
<tr><th colspan="2">Item</th><th rowspan="2">FL display</th><th>Key opera</th></tr>
<tr><th>Mode name</th><th>Description</th><th>(Remote contr</th></tr>
<tr><td>Version Display of <u>Main Microprocessor</u></td><td colspan="3">Example of FL Display<br>0100SK<br>Version<br>OEM Code<br>0: Matsushita Electric<br>1: Hitachi<br>2: Samsung<br>3: DENON<br>Destination Code and Model Code<br>For Japan<br>SK: DMR-E55<br>SL: DMR-E85H<br>SR: DMR-E95H<br>SS: DMR-E300H<br>SU: DMR-E500H<br>SQ: DMR-E75V<br>SV: DMR-E150V<br>For North America/Can<br>/Latin America<br>DK: DMR-E55P/PC/PL/F<br>DP: DMR-E65P<br>DL: DMR-E85HP/HPC<br>DR: DMR-E95HP<br>DU: DMR-E500HP/HPC<br>DQ DMR-E75VP/VPC/VI<br>For Europe/Asia/<br>EK: DMR-E55EG/EB/EBL/EP/EE/GCS/GN/GK/GC, DMR-E53E<br>EP: DMR-E65EG/EB/EP/EE/GCS/GN/GK/GC<br>EL: DMR-E85HEG/HEB/HEP/HEE/HGCS/HGN<br>ER: DMR-E95HEG/HEB<br>EU: DMR-E500HEG/HEB/HGCS/HGN/HGK<br>EQ: DMR-E75VEG/VEB</td></tr>
<tr><td>Version Display of <u>Timer Microprocessor</u></td><td colspan="3">Example of FL Display<br>0010DA<br>Version: 0.01<br>Bottom 2 figures of Part Number of Timer Microprocessor: M30</td></tr>
<tr><td>White Picture Output</td><td>White picture is output as component Output from AV Decoder.<br>*White picture<br>(Saturation rate : 100%)<br>*It is enable to switch Interlace/ Progressive by “I/Pswitch: [1] [4]”</td><td>*Initial mode is “Interlace”.<br>WHIT I<br>Switch Interlace/ Progressive<br>WHIT P</td><td>Press [1] [1] in s mode.<br>Press [1] [4] in V Picture Output r *I/P are switche alternately.</td></tr>
</table>

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| Magenta Picture Output | Magenta picture is output with Component Output from AV Decoder.<br>*Magenta picture (Saturation rate: 100%)<br>*It is enable to switch Interlace/ Progressive by "I/Pswitch: [1] [4]" | *Initial mode is "Interlace".<br>MAGE I | Press [1] [2] in s mode. |
| | | Switch Interlace/ Progressive<br>MAGE P | Press [1] [4] in M Picture Output r *I/P are switche alternately. |
| RTSC Return in XP (A & V) | AV1 input signal is encoded (XP), decoded (XP) and output decoded signal to external without DISC recording and DISC playback. | Initial mode: EE2/ Interlace / XP/ Audio 48kHz<br>EE2 I XP 48 | Press [1] [3] in s mode. |
| | | Switch Interlace/ Progressive<br>EE2 P XP 48 | Press [1] [4] in P Return XP mode *I/P are switche alternately. |
| | | Audio 44.1 kHz/ 48 kHz Switch<br>EE2 P XP 44 | Press [2] [4] in P Return XP mode *48 kHz / 44.1 kH switched alterna |
| I/P Switch | Switch Interlace and Progressive in EE mode.<br>*Initial setting is "Interlace".<br>*This command is effective during executing "White Picture Output", "MagentaPicture Output" and "RTSC Return in XP (A & V)" modes. | Initial mode is Interlace<br>SERVICE I<br>Switch Interlace/ Progressive<br>SERVICE P | Press [1] [4] in I mode. *I/P are switche alternately. |
| Audio Mute (XTMUTE) | Check whether mute is applied normally by the timer microprocessor. | TIMER MUTE | Press [2] [1] in s mode. |
| Audio Mute (XDMUTE) | Check whether mute is applied normally by the Digital P.C.B. (GLUE IC). | MAIN MUTE | Press [2] [2] in s mode. |

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| Audio Pattern Output | The audio pattern stored in the internal memory is output<br>(Lch: 1kHz/-18dB)<br>(Rch: 400Hz/-18dB)<br>*Audio sound clock switching operation of DAC can beconfirmed by sub command [2] [4]. | Initial mode (Audio 48kHz)<br>AUDIO 48<br>Audio 44.1kHz/48kHz switching<br>AUDIO 44 | Press [2] [3] in s mode.<br>Press [2] [4] in A Pattern Output r *48 kHz / 44.1 kH switched alterna |
| HDD READ inspection | Perform a complete read inspection of the HDD. | When the HDD is OK<br>HDD RDOK<br>If the HDD is defective<br>HDD RDNG□○○<br>□ : Judge of Forward rate.<br>*When normal (Forward rate is 35Mbps or more, and there is no HDD error): □ is Space.<br>*When Abnormal (Forward rate is less than 35Mbps): □ is X.<br>○○ : Number of what have spent time for seeking over 100ms.<br>*When normal: ○○ are spaces.<br>*When Abnormal: Display Number of what have spent time for seeking over 100ms. However, if the number is more than 100, Display [XX].<br>We judge it is normal that the number is less than 4. | Press [3] [1] in t mode.<br>*When cancelin checking mode executing, do "f power-off".<br>Method:<br>Press the "POW button on the Fr more than 10 se |
| Laser Used Time Indiction | Check laser used time (hours) of drive. | LASER*****<br>● (*****) is the used time display in hour.<br>● Laser used time ofDVD/ CD in Playback/ Recording mode is counted. | Press [4] [1] in s mode. |
| Delete the Laser Used Time | Laser used time stored in the memory of the unit is deleted. | CLR LASER | Press [9] [5] in s mode. |

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| RAM Drive Last Error | RAM Drive error code display.<br>*For details about the drive error code, refer to the Service Manual for the specific RAM Drive.<br>*Details are described in “7. Service Explorer ”. | 1. Error Number is displayed for 5 seconds.<br>NO **<br>2. Time when the error has occurred is displayed for 5 seconds.<br>YMMDDhhmmss<br>Y: Year<br>MM: Month<br>DD: Day<br>hh: Hour<br>mm: Minute<br>ss: Second<br>3. Last Drive Error (1/2) is displayed for 5 seconds.<br>******<br>4. Last Drive Error (2/2) is displayed for 5 seconds.<br>********<br>5. Error occurring Disc type is displayedfor 5 seconds.<br>MEDIA******<br>6. Disc Maker ID is displayed for 5 seconds.<br>**********<br>7. Factor of Drive Erroroccurring is left displayed | Press [4] [2] in s mode.<br>Then press [0] [ the past 99 erro displayed.<br>Incase that the s cannot be identi display is black |

| | | | |
|---|---|---|---|
| | | INFO******* | |

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| Delete the Last Drive Error | Delete the Last Drive Error information stored on the DVD RAM-Drive. | CLR DRIVE | Press [9] [6] in s mode. |
| Turn on all FL/ LEDs | All segments of FL and all LEDs are turned on. | All segments are turned on. | Press [5] [1] in s mode. |
| PB HIGH Signal Output | 8 pin of AV 1 Jack (PB HIGH terminal) is High (approx. 11V DC). | PB8 HIGH | Press [5] [2] in s mode. |
| PB MIDDLE Signal Output | 8 pin of AV 1 Jack (PB HIGH terminal) is Middle (approx. 5.5V DC). | PB8 MIDDLE | Press [5] [3] in s mode. |
| Front connection inspection | Press all front keys and check the connection between Main P.C.B. and Front P.C.B. | 000Γ (1) ** (2)<br>(1) Each time a key is pressed, segment turned on increases one by one.<br>(2) Total umber of keys that have been pressed. | Press [5] [4] in s mode. |
| Production Date Display | Display the date when the unit was produced. | PD YYYYMMDD<br>YYY: Year<br>MM: Month<br>DD: Day | Press [6] [1] in s mode. |
| Display the accumlated working time | Display the accumulated unit's working time. | **********<br>(Indicating unit: Second) | Press [6] [4] in s mode. |

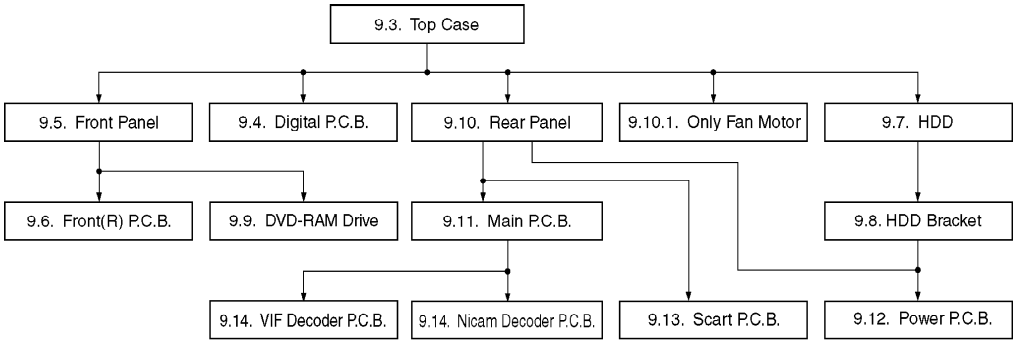
| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| Display the Error History | Display the Error History stored on the unit. | Display reason of error for 5 seconds.<br>FTREC***<br>Display the time when the error has occurred for 5 seconds..<br>YYMMDDHHMM<br>YY: Year<br>MM: Month<br>DD: Day<br>HH: Hour<br>MM: Minute<br>Display the accumlated working time to occurring of the error for 5 seconds..<br>**********<br>(Indicating unit: Second) | Press [6] [5] in s mode.<br>Then press [0] [ the past 19 erro are displayed. |
| Delete the Error History | Delete Error History information stored on the unit. | CLR FTREC | Press [9] [7] in s mode. |
| AV4(V)/AV1(RGB) I /O Setting | Set input to AV4(V) and set output to AV1(RGB) for I/O checking | AV4V-AV1RGB | Press [8] [0] in s mode. |
| AV2(Y/C)/AV1(V) I/ O Setting | Set input to AV2(Y/C) and set output to AV1(V) for I/O checking | AV2YC-AV1V | Press [8] [1] in s mode. |
| AV2(V)/AV1(Y/C) I/ O Setting | Set input to AV2(V) and set output to AV1(Y/C) for I/O checking | AV2V-AV1 YC | Press [8] [2] in s mode. |
| AV2(RGB)/AV1(V) I /O Setting | Set input to AV2(RGB) and set output to AV1(V) for I/O checking | AV2RGB-AV1V | Press [8] [3] in s mode. |

| Item | | FL display | Key opera |
|---|---|---|---|
| Mode name | Description | | (Remote contr |
| P50 (H) Output | Timer Microprocessor IC7501-22 output High signal for AV1-pin 10 passing through inverter (approx. 0V DC at AV1-pin 10). | P50 HIGHOUT<br>When OK.<br>P50 HIGH OK<br>When NG.<br>P50 HIGH NG | Press [8] [4] in s mode. |
| P50 (L) Output | Timer Microprocessor IC7501-22 output Low signal for AV1-pin 10 passing through inverter (approx. 4.4 V DC at AV1-pin 10). | P50 LOW OUT<br>When OK.<br>P50 LOW OK<br>When NG.<br>P50 LOW NG | Press [8] [5] in s mode. |
| Tray OPEN/ CLOSE Test | The RAM drive tray is opened and closed repeatedly. | NO********* <br>"*" is number of open/ close cycle times. | Press [9] [1] in s mode *When releasing mode, press the button on Front more than 10 se |
| Error code initialization | Initialization of the last error code held by timer (Write in F00) | CLR E-CODE | Press [9] [8] in s mode. |
| Initialize Service | Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting. | CLR SERV | Press [9] [9] in s mode. |
| Finishing service mode | Release Service Mode. | Display in STOP (E-E) mode.<br>********** | Press power bu the front panel i mode. |

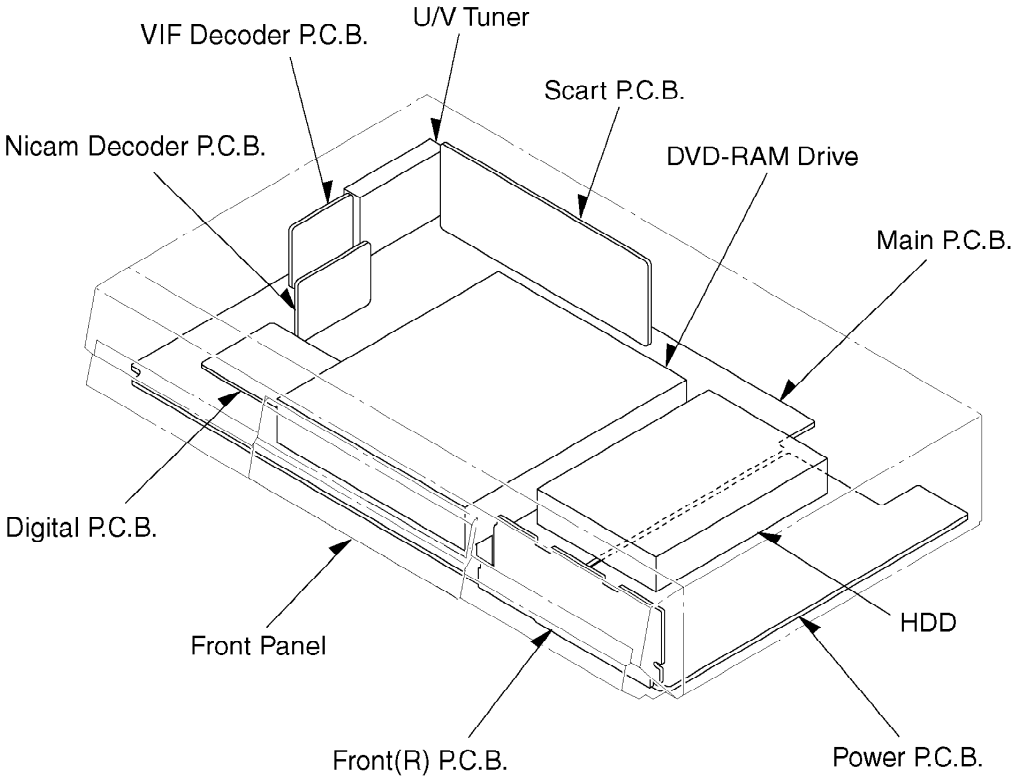
# 9. Assembling and Disassembling

## 9.1. Disassembly Flow Chart

**The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.**
**To assemble the unit, reverse the steps shown in the chart below.**



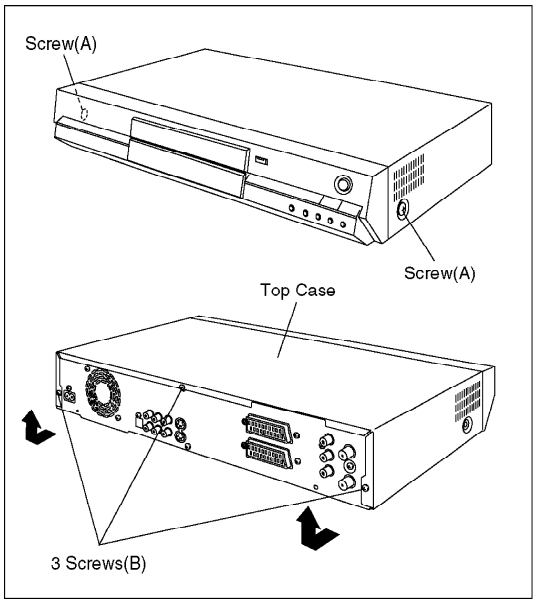

## 9.2. P.C.B. Positions




## 9.3. Top Case

**1. Remove the 2 screws (A) and 3 screws (B).**

**2. Open the both ends at rear side of the Top Case a little and lift the Top Case in the direction of the arrows.**




## 9.4. Digital P.C.B.

When replacing with Digital P.C.B., "UNFORMAT" indication is displayed and HDD must be formatted.
After that, **programme in the HDD will be lost**.

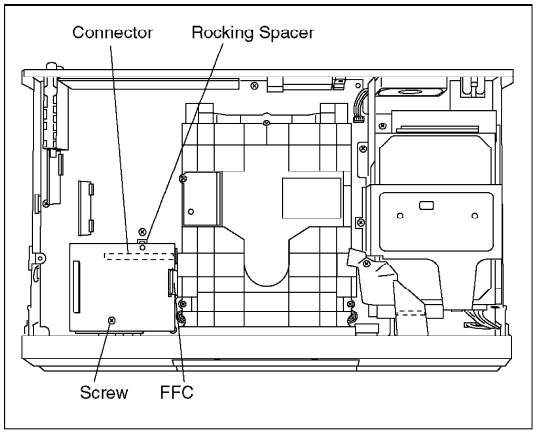
- How to format the HDD -

1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.
2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

**1. Remove the FFC and a Screw.**

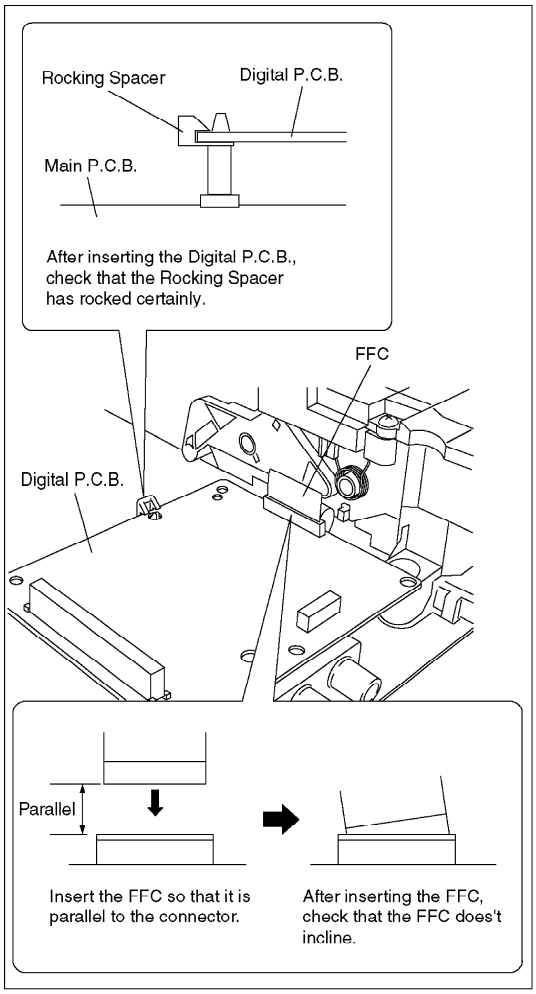
**2. Unlock a Rocking Spacer.**

**3. Lift up Digital P.C.B. slightly so to disconnect Connector to remove Digital P.C.B.**



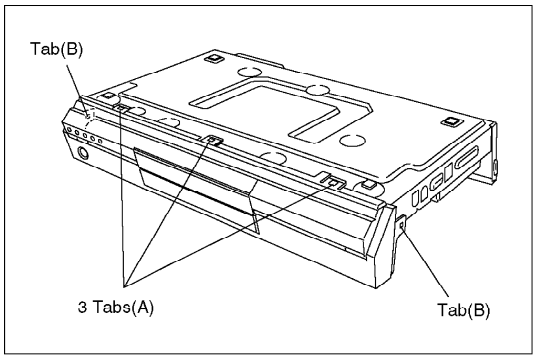

**CAUTION:**

**When replacing Digital P.C.B., pay attention as below.**

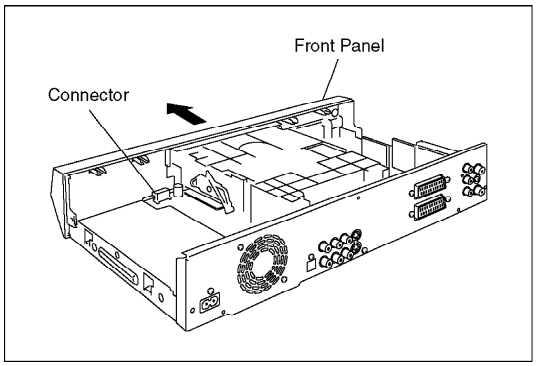

Rocking Spacer
Digital P.C.B.
Main P.C.B.
After inserting the Digital P.C.B., check that the Rocking Spacer has rocked certainly.
FFC
Digital P.C.B.
Parallel
Insert the FFC so that it is parallel to the connector.
After inserting the FFC, check that the FFC does't incline.

## 9.5. Front Panel

**1. Remove 3 tabs (A) and 2 tabs (B) in this order. (The tab (A) and (B) should be removed at the same time, respectively.)**

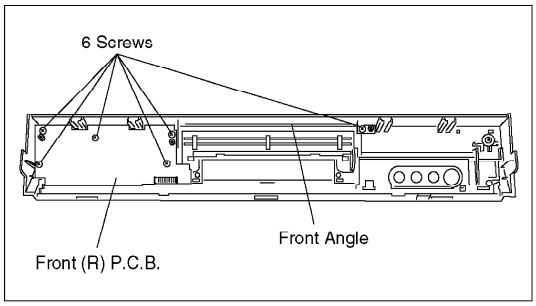



**2. Move the front panel to front side straight and slowly so to remove it with Connector.**




## 9.6. Front (R) P.C.B.

### 1. Remove 6 screws and Front Angle.




## 9.7. HDD

When replacing with HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, **programme in the HDD will be lost**.

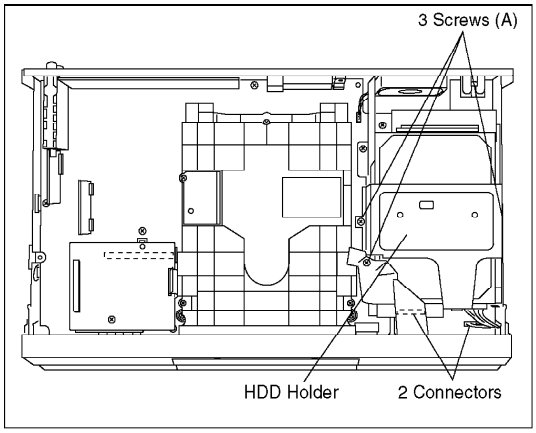
- How to format the HDD -

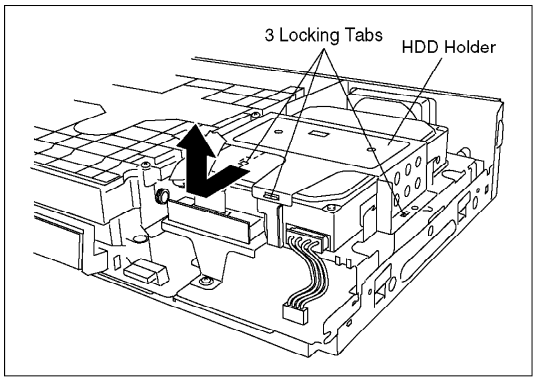
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.

2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

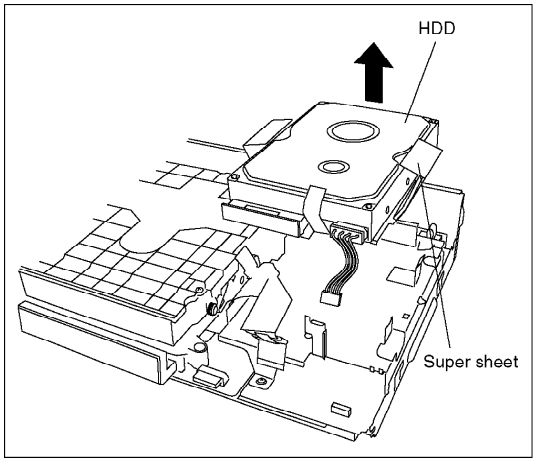
### 1. Remove 3 Screws (A) and 2 connectors.

### 2. Slide and lift up HDD Holder in the direction of the arrows so to unlock 3 locking tabs.






## 3. Lift up HDD with super sheet vertically and remove super sheet.




**Handling of HDD**

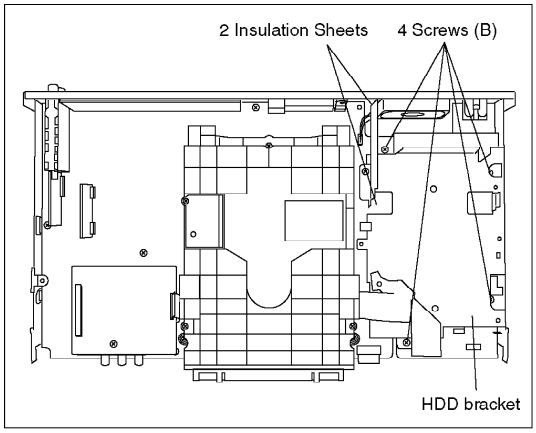
**The following precautions should be taken when handling HDD.**

**1. Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.**
**2. When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.**
**3. When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.**
**4. Avoid stacking up HDD.**
**5. HDD is unstable and easy to fall. Do not stand it on its side face.**
**6. When handling HDD, hold its side faces to avoid static hazard.**
**7. Do not place HDD on its wrapping bag after removal. (Prevention of static hazard**
**8. Use a screwdriver with low impact and anti-static features.**
**9. To replace HDD, remove the vertical short-circuit pin.**
**(Keep the horizontal short-circuit pin in its place)**

**Note:**
**When replacing HDD, please make the rear jumper slave or cable select configuration.**
**(same configuration as HDD to exchange)**

## 9.8. HDD Bracket

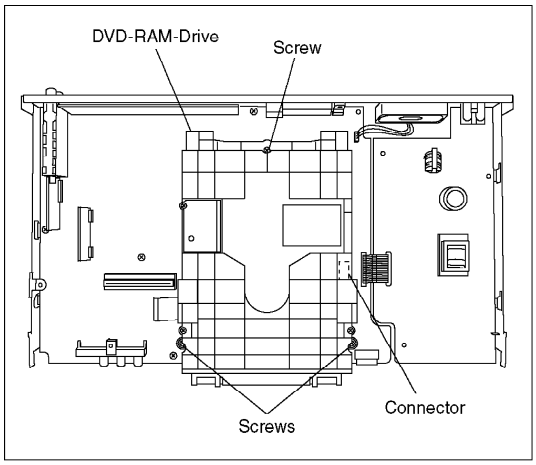
**1. Remove 4 screws (B) and HDD Bracket with 2 Insulation Sheets.**




## 9.9. DVD-RAM Drive

**1. Remove 3 Screws.**

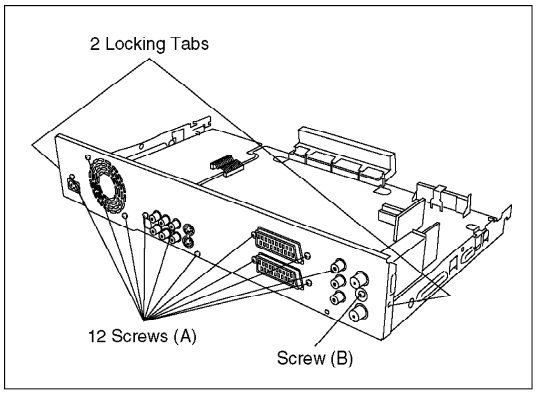
**2. Pull out DVD-RAM Drive vertically so to remove it with Connector.**




## 9.10. Rear Panel

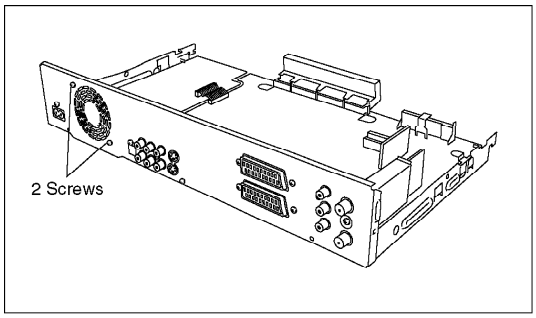
**1. Remove the 12 screws (A) and screw (B).**

**2. Unlock 2 Locking Tabs to remove Rear Panel.**

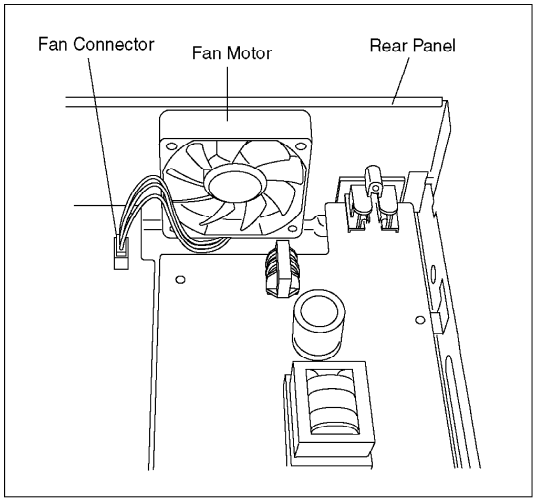



### 9.10.1. Only Fan Motor

**1. Remove the 2 screws.**

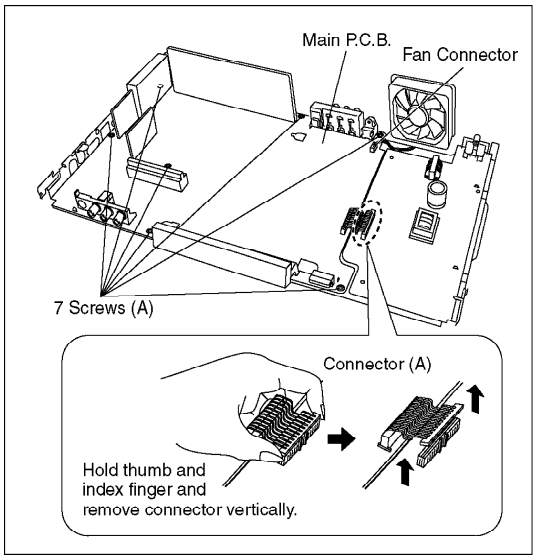



**2. Remove Fan Connector to remove Fan Motor.**

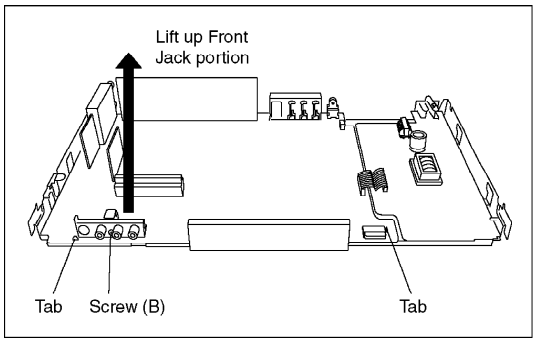



## 9.11. Main P.C.B.

**1. Remove the 7 screws (A), Connector (A) and Fan Connector.**

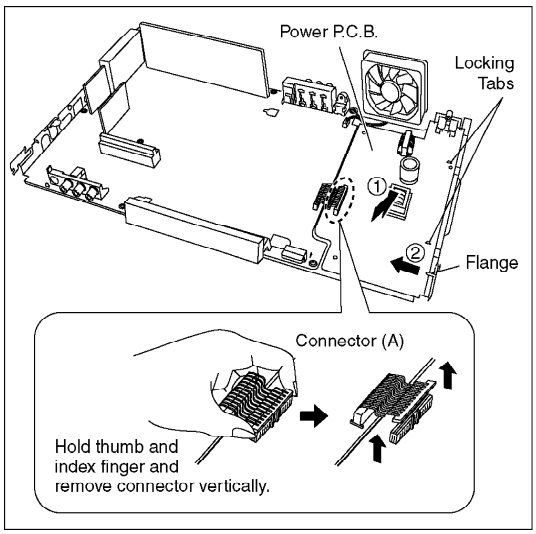



**2. Remove a Screw (B) and lift up Front Jack portion of Main P.C.B. slightly so to unlock Tab to remove Main P.C.B..**



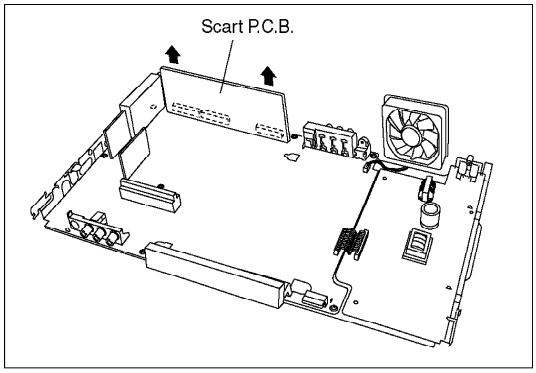

## 9.12. Power P.C.B.

**1. Lift up Power P.C.B. a little so to unlock 2 Tabs and slide Power P.C.B. so to unlock Flange to remove Power P.C.B.**

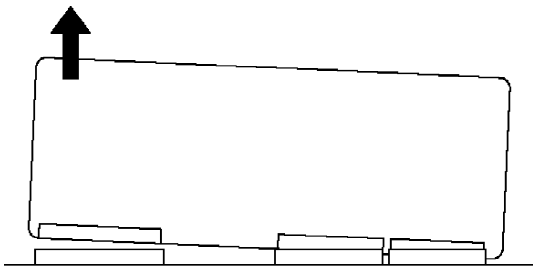


## 9.13. The Scart P.C.B.

### 1. Pull out the Scart P.C.B. in the direction of the arrow.



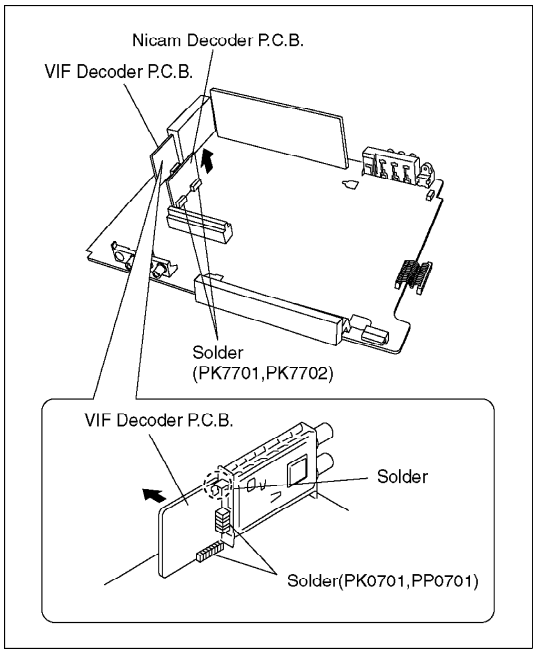

**Note:**
**At first disconnect the connector on one side, and pull out the Scart P.C.B.**



## 9.14. VIF Decoder P.C.B. and Nicam Decoder P.C.B.

### 1. Remove the solders.

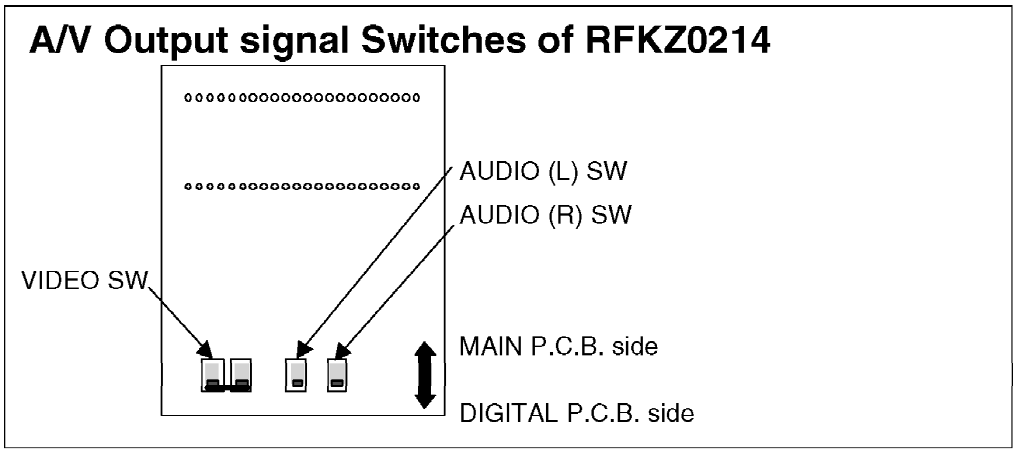
### 2. Pull out the VIF Decoder P.C.B. and Nicam Decoder P.C.B.




# 10. Service Fixture and Tools

| Part Number | Description | Compatibilit |
|---|---|---|
| RFKZ0125 | Extension FFC (Digital P.C.B. - DVD-RAM Drive / 40 Pin) | Same as E50 series |
| RFKZ0168 | Extension Cable (Main P.C.B. - Fan / 3 Pin) | Same as E50 series |
| RFKZ0169 | Extension Cable (Power P.C.B. - HDD / 4 Pin) | Same as E100H seri |
| RFKZ0197 | Extension Cable (Main P.C.B. - DVD-RAM Drive / 8 Pin) | New |
| RFKZ0214 | Extension Cable (MainP.C.B. - Digital P.C.B. / 88 Pin) | New |
| RFKZ0215 | Extension Cable (MainP.C.B. - Front (R) P.C.B. / 12 Pin) | New |
| RFKZ0216 | Extension Cable (MainP.C.B. - Power P.C.B. / 23 Pin) | New |

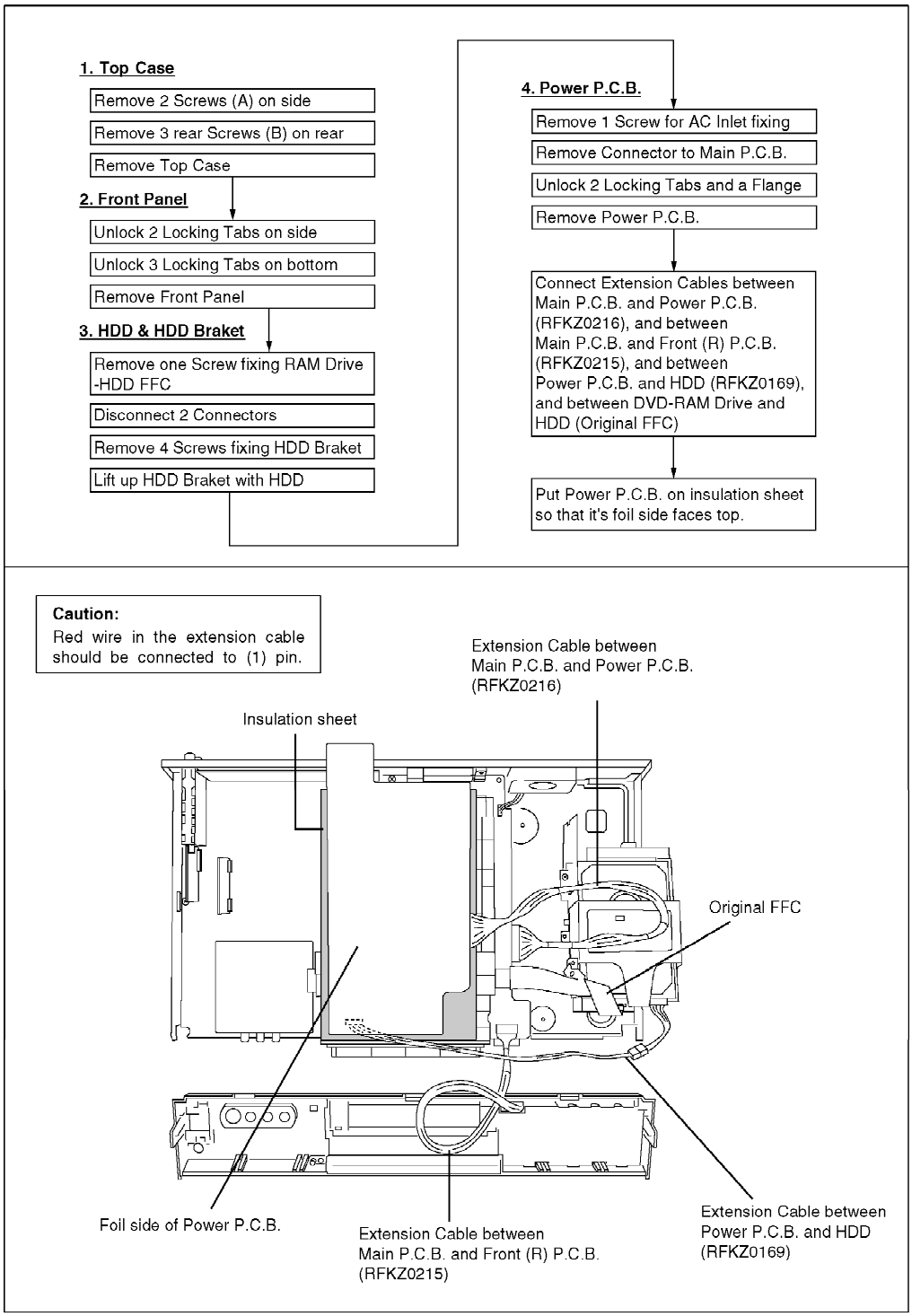
**NOTE:**
**Extension Cable RFKZ0214 has A/V Output Signal switches.**
**Output signals can be switched from MAIN P.C.B. side or DIGITAL P.C.B. side.**
**When check MAIN P.C.B., turn switches to MAIN PCB side.**
**When check DIGITAL P.C.B., turn switches to DIGITAL P.C.B. side.**



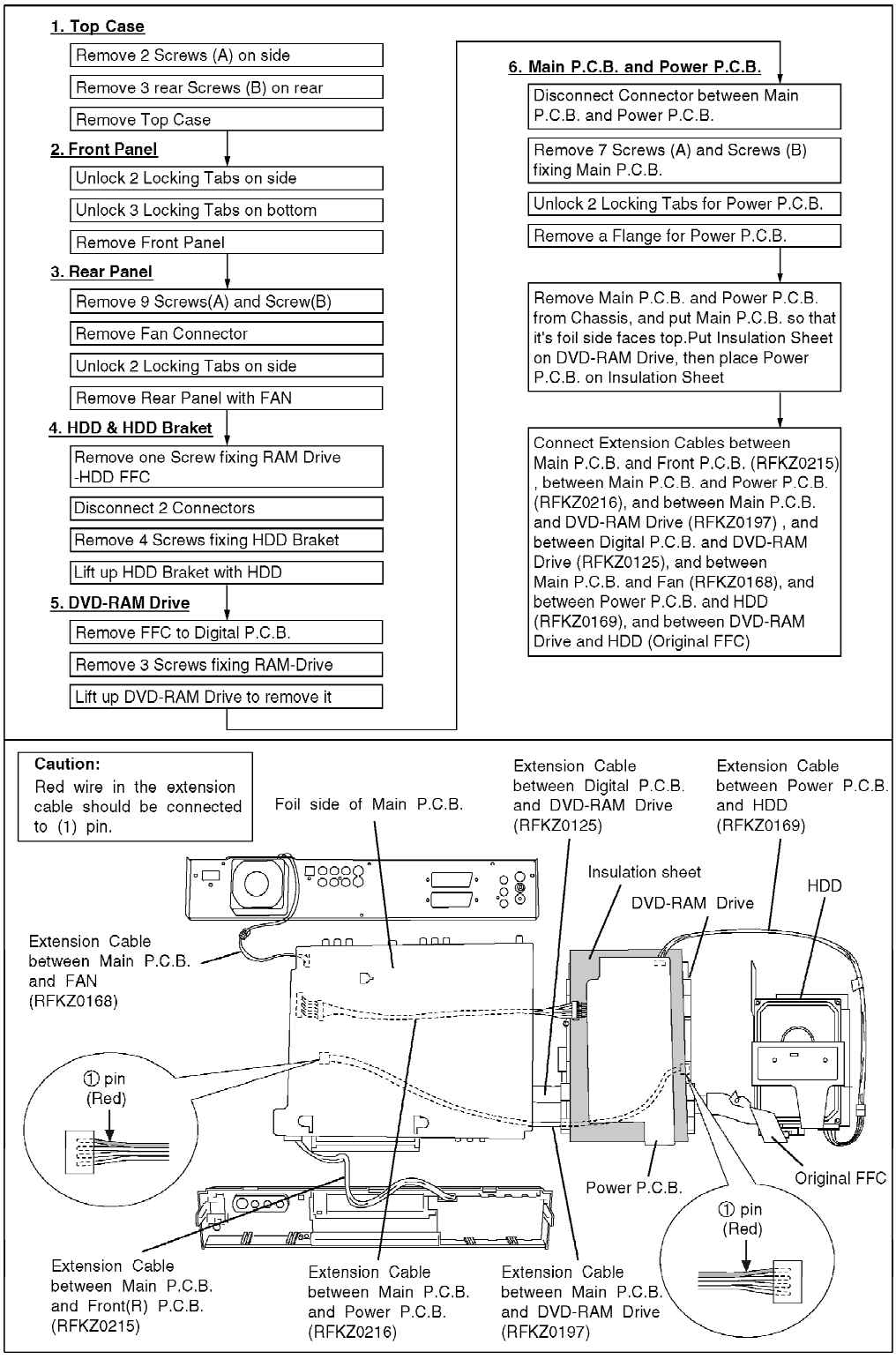

# 11. Service Positions

**Note:**
**For description of the disassembling procedure, see the section 9.**

## 11.1. Checking and Repairing of Power P.C.B.


1. Top Case
Remove 2 Screws (A) on side
Remove 3 rear Screws (B) on rear
Remove Top Case
2. Front Panel
Unlock 2 Locking Tabs on side
Unlock 3 Locking Tabs on bottom
Remove Front Panel
3. HDD & HDD Braket
Remove one Screw fixing RAM Drive -HDD FFC
Disconnect 2 Connectors
Remove 4 Screws fixing HDD Braket
Lift up HDD Braket with HDD
4. Power P.C.B.
Remove 1 Screw for AC Inlet fixing
Remove Connector to Main P.C.B.
Unlock 2 Locking Tabs and a Flange
Remove Power P.C.B.
Connect Extension Cables between Main P.C.B. and Power P.C.B. (RFKZ0216), and between Main P.C.B. and Front (R) P.C.B. (RFKZ0215), and between Power P.C.B. and HDD (RFKZ0169), and between DVD-RAM Drive and HDD (Original FFC)
Put Power P.C.B. on insulation sheet so that it's foil side faces top.
Caution:
Red wire in the extension cable should be connected to (1) pin.
Extension Cable between Main P.C.B. and Power P.C.B. (RFKZ0216)
Insulation sheet
Original FFC
Foil side of Power P.C.B.
Extension Cable between Main P.C.B. and Front (R) P.C.B. (RFKZ0215)
Extension Cable between Power P.C.B. and HDD (RFKZ0169)

## 11.2. Checking and Repairing of Main P.C.B.


1. Top Case
Remove 2 Screws (A) on side
Remove 3 rear Screws (B) on rear
Remove Top Case
2. Front Panel
Unlock 2 Locking Tabs on side
Unlock 3 Locking Tabs on bottom
Remove Front Panel
3. Rear Panel
Remove 9 Screws(A) and Screw(B)
Remove Fan Connector
Unlock 2 Locking Tabs on side
Remove Rear Panel with FAN
4. HDD & HDD Braket
Remove one Screw fixing RAM Drive -HDD FFC
Disconnect 2 Connectors
Remove 4 Screws fixing HDD Braket
Lift up HDD Braket with HDD
5. DVD-RAM Drive
Remove FFC to Digital P.C.B.
Remove 3 Screws fixing RAM-Drive
Lift up DVD-RAM Drive to remove it
6. Main P.C.B. and Power P.C.B.
Disconnect Connector between Main P.C.B. and Power P.C.B.
Remove 7 Screws (A) and Screws (B) fixing Main P.C.B.
Unlock 2 Locking Tabs for Power P.C.B.
Remove a Flange for Power P.C.B.
Remove Main P.C.B. and Power P.C.B. from Chassis, and put Main P.C.B. so that it's foil side faces top.Put Insulation Sheet on DVD-RAM Drive, then place Power P.C.B. on Insulation Sheet
Connect Extension Cables between Main P.C.B. and Front P.C.B. (RFKZ0215) , between Main P.C.B. and Power P.C.B. (RFKZ0216), and between Main P.C.B. and DVD-RAM Drive (RFKZ0197) , and between Digital P.C.B. and DVD-RAM Drive (RFKZ0125), and between Main P.C.B. and Fan (RFKZ0168), and between Power P.C.B. and HDD (RFKZ0169), and between DVD-RAM Drive and HDD (Original FFC)
Caution:
Red wire in the extension cable should be connected to (1) pin.
Foil side of Main P.C.B.
Extension Cable between Digital P.C.B. and DVD-RAM Drive (RFKZ0125)
Extension Cable between Power P.C.B. and HDD (RFKZ0169)
Insulation sheet
DVD-RAM Drive
HDD
Extension Cable between Main P.C.B. and FAN (RFKZ0168)
① pin (Red)
Power P.C.B.
Original FFC
① pin (Red)
Extension Cable between Main P.C.B. and Front(R) P.C.B. (RFKZ0215)
Extension Cable between Main P.C.B. and Power P.C.B. (RFKZ0216)
Extension Cable between Main P.C.B. and DVD-RAM Drive (RFKZ0197)

## 11.3. Checking and Repairing of Digital P.C.B.

**1. Top Case**

Remove 2 Screws (A) on side

Remove 3 rear Screws (B) on rear

Remove Top Case

**2. Digital P.C.B.**

Remove FFC to RAM-Drive

Unlock a Rocking Spacer

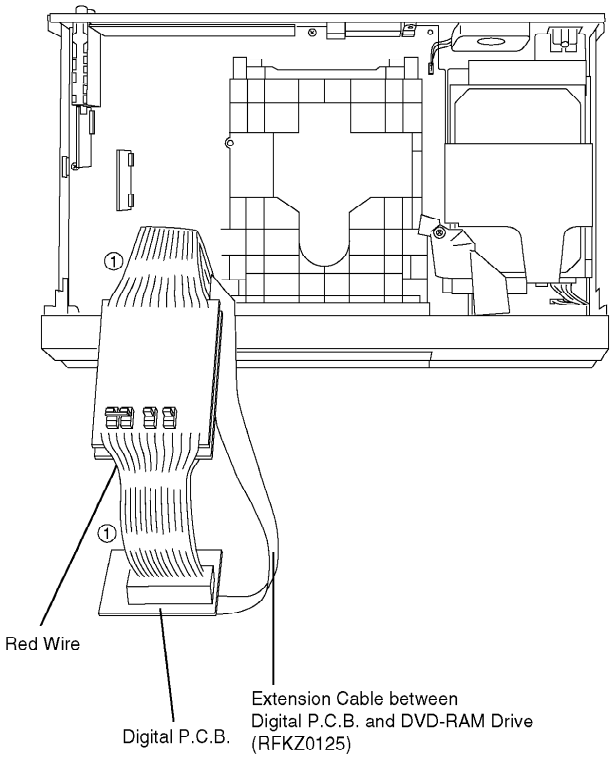
Remove a Screw fixing Digital P.C.B.

Lift up Digital P.C.B. to remove it

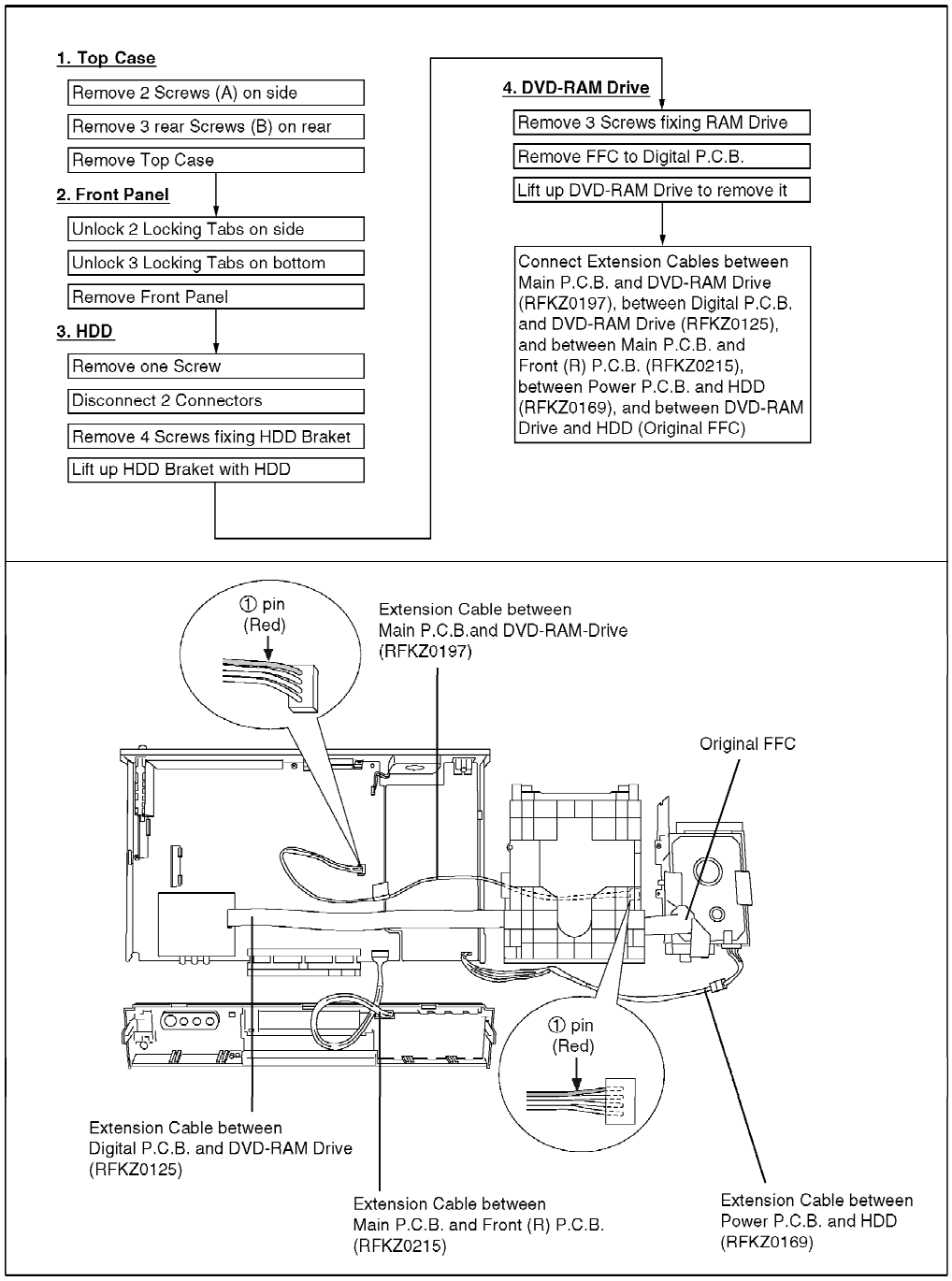
Connect Extension Cables between Main P.C.B. and Digital P.C.B. (RFKZ0214), and between Digital P.C.B. and DVD-RAM Drive (RFKZ0125).

Extension Cable between Main P.C.B. and Digital P.C.B. (RFKZ0214)

**Caution:**
Red wire in the extension cable should be connected to (1) pin.




## 11.4. Checking and Repairing of DVD-RAM Drive


1. Top Case
Remove 2 Screws (A) on side
Remove 3 rear Screws (B) on rear
Remove Top Case
2. Front Panel
Unlock 2 Locking Tabs on side
Unlock 3 Locking Tabs on bottom
Remove Front Panel
3. HDD
Remove one Screw
Disconnect 2 Connectors
Remove 4 Screws fixing HDD Braket
Lift up HDD Braket with HDD
4. DVD-RAM Drive
Remove 3 Screws fixing RAM Drive
Remove FFC to Digital P.C.B.
Lift up DVD-RAM Drive to remove it
Connect Extension Cables between Main P.C.B. and DVD-RAM Drive (RFKZ0197), between Digital P.C.B. and DVD-RAM Drive (RFKZ0125), and between Main P.C.B. and Front (R) P.C.B. (RFKZ0215), between Power P.C.B. and HDD (RFKZ0169), and between DVD-RAM Drive and HDD (Original FFC)
① pin (Red)
Extension Cable between Main P.C.B.and DVD-RAM-Drive (RFKZ0197)
Original FFC
① pin (Red)
Extension Cable between Digital P.C.B. and DVD-RAM Drive (RFKZ0125)
Extension Cable between Main P.C.B. and Front (R) P.C.B. (RFKZ0215)
Extension Cable between Power P.C.B. and HDD (RFKZ0169)

## 11.5. Checking and Repairing of HDD

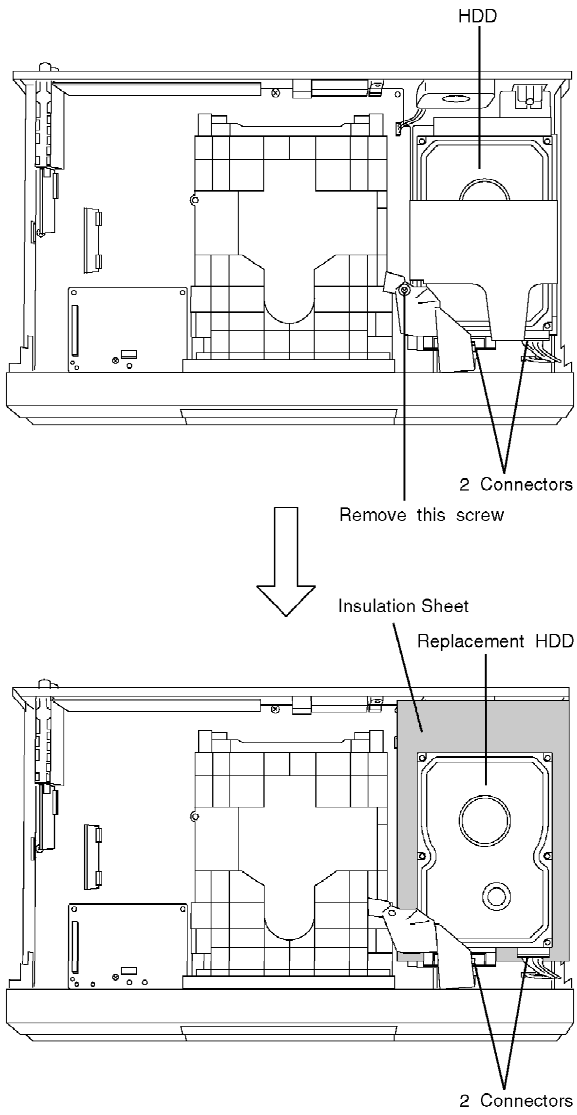
1. Top Case

Remove 2 Screws (A) on side

Remove 3 rear Screws (B).on rear

Remove Top Case

(1) Remove one Screw fixing RAM Drive-HDD FFC
(2) Disconnect 2 Connectors
(3) Put a Insulation Sheet on HDD
(4) Put Replacement HDD on the Insulation Sheet
(5) Connect 2 Connectors to Replacement HDD




# 12. Adjustment Procedures

## 12.1. After replacing the RAM Drive with new one

After replacing of RAM drive unit, TEST mode is not necessary. Please confirm operation for RAM drive.

## 12.2. When the unit does not operate normally after replacing the Timer Microprocessor with new one

**in order to transmit the**

| Step | Operation | Descriptions |
|---|---|---|
| 1 | While power is ON, short IC7508-4 pin (RESET) and the GND. | "RESET (L)" is transmitted to th terminal of Timer Microprocesso 11 pin), then the unit operates n |

# 13. Standard Inspection Specifications after Making Repairs

**After making repairs, we recommend performing the following inspection, to check normal operation.**

| No. | Procedure | Item to Check |
|---|---|---|
| 1 | Turn on the power, and confirm items pointed out. | Items pointed out should reappear. |
| 2 | Insert RAM disc. | The Panasonic RAM disc should be reco |
| 3 | Enter the EE (TU IN / AV IN - AV OUT) mode. | No abnormality should be seen in the pic sound or operation. |
| 4 | Perform auto recording and playback for one minute using the RAM disc. | No abnormality should be seen in the pic sound or operation. |
| 5 | Model with the HDD : Perform auto recording and playback for one minute using the HDD | No abnormality should be seen in the pic sound or operation.<br>*Panasonic DVD-R disc should be used v recording and playback. |
| 6 | If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc. | No abnormality should be seen in the pic sound or operation. |
| 7 | After checking and making repairs, upgrade the firmware to the latest version. | Make sure that [FIRM_SUCCESS] appear FL displays.<br>*[UNSUPPORT] display means the unit is updated to newest same version. Then ve up is not necessary. |
| 8 | Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization). | Make sure that [CLR SERV] appears in th display.<br>After checking it, turn the power off. |
| 9 | When replacing of RAM drive, transfer [9] [5] in the service mode setting to delete Laser used time. | Make sure that [CLR LASER] appears in t display.<br>After that, turn power off. |

**Use the following checklist to establish the judgement criteria for the picture and sound.**

| Item | Contents | Check | Item | Contents |
|---|---|---|---|---|
| Picture | Block noise | | Sound | Distorted sound |
| | Crosscut noise | | | Noise (static, background noise, etc.) |
| | Dot noise | | | The sound level is too low. |
| | Picture disruption | | | The sound level is too high. |
| | Not bright enough | | | The sound level changes. |
| | Too bright | | | |
| | Flickering color | | | |
| | Color fading | | | |

# 14. Voltage and Waveform Chart

**Note)**

**- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.**
**Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.**

## 14.1. Power P.C.B.

## 14.2. Main P.C.B.

## 14.3. Nicam Decoder P.C.B.

## 14.4. Scart P.C.B.

## 14.5. Front (R) P.C.B.

## 14.6. P9001 Connector

## 14.7. Waveform Chart

**Note:**
**The waveforms are measured with PAL colour bar signal.**

# 15. Abbreviations

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| A | A0~UP | ADDRESS |
| | ACLK | AUDIO CLOCK |
| | AD0~UP | ADDRESS BUS |
| | ADATA | AUDIO PES PACKET DATA |
| | ALE | ADDRESS LATCH ENABLE |
| | AMUTE | AUDIO MUTE |
| | AREQ | AUDIO PES PACKET REQUEST |
| | ARF | |
| | ASI | AUDIO RF |
| | ASO | SERVO AMP INVERTED INPUT |
| | ASYNC | SERVO AMPOUTPUT |
| | | AUDIO WORD DISTINCTION SYNC |
| B | BCK | BIT CLOCK (PCM) |
| | BCKIN | BIT CLOCK INPUT |
| | BDO | BLACK DROP OUT |
| | BLKCK | SUB CODE BLOCK CLOCK |
| | BOTTOM | CAP. FOR BOTTOM HOLD |
| | BYP | BYPATH |
| | BYTCK | BYTE CLOCK |
| C | CAV | CONSTANT ANGULAR |
| | CBDO | VELOCITY |
| | CD | CAP. BLACK DROP OUT |
| | CDSCK | COMPACT DISC |
| | CDSRDATA | CD SERIAL DATA CLOCK |
| | | CD SERIAL DATA |
| | CDRF | CD RF (EFM) SIGNAL |
| | CDV | COMPACT DISC-VIDEO |
| | CHNDATA | CHANNEL DATA |
| | CKSL | SYSTEM CLOCKSELECT |
| | CLV | CONSTANT LINEAR VELOCITY |
| | COFTR | CAP. OFF TRACK |
| | CPA | CPU ADDRESS |
| | CPCS | CPU CHIP SELECT |
| | CPDT | CPU DATA |
| | CPUADR | CPU ADDRESS LATCH |
| | CPUADT | CPU ADDRESS DATA BUS |
| | CPUIRQ | CPU INTERRUPT REQUEST |
| | CPRD | CPU READ ENABLE |
| | CPWR | CPU WRITE ENABLE |
| | CS | CHIPSELECT |
| | CSYNCIN | COMPOSITE SYNC IN |
| | CSYNCOUT | COMPOSITE SYNC OUT |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| D | DACCK | D/A CONVERTER CLOCK |
| | DEEMP | DEEMPHASIS BIT ON/OFF |
| | DEMPH | DEEMPHASIS SWITCHING |
| | DIG0~UP | FL DIGIT OUTPUT |
| | DIN | DATA INPUT |
| | DMSRCK | DM SERIAL DATA READ CLOCK |
| | DMUTE | DIGITAL MUTE CONTROL |
| | DO | DROP OUT |
| | DOUT0~UP | DATAOUTPUT |
| | DRF | DATA SLICE RF (BIAS) |
| | DRPOUT | DROP OUT SIGNAL |
| | DREQ | DATA REQUEST |
| | DRESP | DATA RESPONSE |
| | DSC | DIGITAL SERVO CONTROLLER |
| | DSLF | DATA SLICE LOOP FILTER |
| | DVD | DIGITAL VIDEO DISC |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| E | EC | ERROR TORQUE CONTROL |
| | ECR | ERROR TORQUE CONTROL REFERENCE |
| | ENCSEL | ENCODER SELECT |
| | ETMCLK | EXTERNAL M CLOCK (81MHz/ 40.5MHz) |
| | ETSCLK | EXTERNAL S CLOCK (54MHz) |
| F | FBAL | FOCUS BALANCE |
| | FCLK | FRAME CLOCK |
| | FE | FOCUS ERROR |
| | FFI | FOCUS ERROR AMP INVERTED INPUT |
| | FEO | FOCUS ERROR AMP OUTPUT |
| | FG | FREQUENCY GENERATOR |
| | FSC | FREQUENCY SUB CARRIER |
| | FSCK | FS (384 OVER SAMPLING) CLOCK |
| G | GND | COMMON GROUNDING (EARTH) |
| H | HA0~UP | HOST ADDRESS |
| | HD0~UP | HOST DATA |
| | HINT | HOST INTERRUPT |
| | HRXW | HOST READ/WRITE |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| I | IECOUT | IEC958 FORMAT DATA OUTPUT |
| | IPFRAG | INTERPOLATION FLAG |
| | IREF | I (CURRENT) REFERENCE |
| | ISEL | INTERFACE MODE SELECT |
| L | LDON | LASER DIODE CONTROL |
| | LPC | LASER POWER CONTROL |
| | LRCK | L CH/R CH DISTINCTION CLOCK |
| M | MA0~UP | MEMORY ADDRESS |
| | MCK | MEMORY CLOCK |
| | MCKI | MEMORY CLOCK INPUT |
| | MCLK | MEMORY SERIAL COMMAND CLOCK |
| | MDATA | MEMORY SERIAL COMMAND DATA |
| | MDQ0~UP | MEMORY DATA INPUT/OUTPUT |
| | MDQM | MEMORY DATA I/O MASK |
| | MLD | MEMORYSERIAL COMMAND LOAD |
| | MPEG | MOVING PICTURE EXPERTS GROUP |
| O | ODC | OPTICAL DISC CONTROLLER |
| | OFTR | OFF TRACKING |
| | OSCI | OSCILLATOR INPUT |
| | OSCO | OSCILLATOR OUTPUT |
| | OSD | ON SCREEN DISPLAY |
| P | P1~UP | PORT |
| | PCD | CD TRACKING PHASE DIFFERENCE |
| | PCK | PLL CLOCK |
| | PDVD | DVD TRACKING PHASE DIFFERENCE |
| | PEAK | CAP. FOR PEAK HOLD |
| | PLLCLK / PLLOK | CHANNEL PLL CLOCK PLL LOCK |
| | PWMCTL | PWM OUTPUT CONTROL |
| | PWMDA | PULSE WAVE MOTOR DRIVEA |
| | PWMOA, B | PULSE WAVE MOTOR OUT A, B |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| R | RE | READ ENABLE |
| | RFENV | RF ENVELOPE |
| | RFO | RF PHASE DIFFERENCE |
| | RS | OUTPUT |
| | RSEL | (CD-ROM) REGISTER SELECT |
| | RST | RF POLARITY SELECT |
| | RSV | RESET |
| | | RESERVE |
| S | SBI0, 1 | SERIAL DATA INPUT |
| | SBO0 | SERIAL DATA OUTPUT |
| | SBT0, 1 | SERIAL CLOCK |
| | SCK | SERIAL DATA CLOCK |
| | SCKR | AUDIO SERIAL CLOCK |
| | SCL | RECEIVER |
| | SCLK | SERIAL CLOCK |
| | SDA | SERIAL CLOCK |
| | SEG0~UP | SERIAL DATA |
| | SELCLK | FL SEGMENT OUTPUT |
| | SEN | SELECTCLOCK |
| | SIN1, 2 | SERIAL PORT ENABLE |
| | SOUT1, 2 | SERIAL DATA IN |
| | SPDI | SERIAL DATA OUT |
| | SPDO | SERIAL PORT DATA INPUT |
| | SPEN | SERIAL PORT DATA OUTPUT |
| | SPRCLK | SERIAL PORT R/W ENABLE |
| | SPWCLK | SERIAL PORT READ CLOCK |
| | SQCK | SERIAL PORT WRITE CLOCK |
| | SQCX | SUB CODE Q CLOCK |
| | SRDATA | SUBCODE Q DATA READ |
| | SRMADR | CLOCK |
| | SRMDT0~7 | SERIAL DATA |
| | | SRAM ADDRESS BUS |
| | SS | SRAM DATA BUS 0~7 |
| | STAT | START/STOP |
| | STCLK | STATUS |
| | STD0~UP | STREAM DATA CLOCK |
| | STENABLE | STREAM DATA |
| | | STREAM DATA INPUT ENABLE |
| | STSEL | STREAM DATA POLARITY |
| | STVALID | SELECT |
| | SUBC | STREAM DATAVALIDITY |
| | SBCK | SUB CODE SERIAL |
| | SUBQ | SUB CODE CLOCK |
| | SYSCLK | SUB CODE Q DATA |

| | | |
|---|---|---|
| | SYSCLK | SYSTEM CLOCK |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| T | TE | TRACKING ERROR |
| | TIBAL | BALANCE CONTROL |
| | TID | BALANCE OUTPUT 1 |
| | TIN | BALANCE INPUT |
| | TIP | BALANCE INPUT |
| | TIS | BALANCE OUTPUT 2 |
| | TPSN | OP AMP INPUT |
| | TPSO | OP AMP OUTPUT |
| | TPSP | OP AMP INVERTED INPUT |
| | TRCRS | TRACK CROSSSIGNAL |
| | TRON | TRACKING ON |
| | TRSON | TRAVERSE SERVO ON |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| V | VBLANK | V BLANKING |
| | VCC | COLLECTOR POWER SUPPLY VOLTAGE |
| | VCDCONT | VIDEO CD CONTROL (TRACKING BALANCE) |
| | VDD | DRAIN POWER SUPPLY VOLTAGE |
| | VFB | VIDEO FEED BACK |
| | VREF | VOLTAGE REFERENCE |
| | VSS | SOURCE POWER SUPPLYVOLTAGE |
| W | WAIT | BUS CYCLE WAIT |
| | WDCK | WORD CLOCK |
| | WEH | WRITE ENABLE HIGH |
| | WSR | WORD SELECT RECEIVER |

| INITIAL/LOGO | | ABBREVIATIONS |
|---|---|---|
| X | X | X' TAL |
| | XALE | X ADDRESS LATCH ENABLE |
| | XAREQ | X AUDIO DATA REQUEST |
| | XCDROM | X CD ROM CHIP SELECT |
| | XCS | X CHIP SELECT |
| | XCSYNC | X COMPOSITE SYNC |
| | XDS | X DATA STROBE |
| | XHSYNCO | X HORIZONTAL SYNC OUTPUT |
| | XHINT | XH INTERRUPTREQUEST |
| | XI | X' TAL OSCILLATOR INPUT |
| | XINT | X INTERRUPT |
| | XMW | X MEMORY WRITE ENABLE |
| | XO | X' TAL OSCILLATOR OUTPUT |
| | XRE | X READ ENABLE |
| | XSRMCE | X SRAM CHIP ENABLE |
| | XSRMOE | X SRAM OUTPUT ENABLE |
| | XSRMWE | X SRAM WRITE ENABLE |
| | XVCS | X V-DEC CHIPSELECT |
| | XVDS | X V-DEC CONTROL BUS |
| | XVSYNCO | STROBE<br>X VERTICAL SYNC OUTPUT |

# 16. Block Diagram

## 16.1. Power Supply Block Diagram

## 16.2. Analog Video Block Diagram

## 16.3. Analog Audio Block Diagram

## 16.4. Timer Block Diagram

## 16.5. Digital Block Diagram

## 16.6. Digital Block IC Pin Terminal Chart (TC1-18)

# 17. Schematic Diagram

## 17.1. Interconnection Schematic Diagram

## 17.2. Main Power Supply Schematic Diagram

## 17.3. Sub Power Supply Section (Main P.C.B. (1/5)) Schematic Diagram (P)

## 17.4. Main Net Section (Main P.C.B. (2/5)) Schematic Diagram (M)

17.5. Video I/O Section (Main P.C.B. (3/5)) Schematic Diagram (V)

17.6. Audio Main Section (Main P.C.B. (4/5)) Schematic Diagram (A)

17.7. Timer Section (Main P.C.B. (5/5)) Schematic Diagram (T)

17.8. Glue Net Section (Digital P.C.B. (1/5)) Schematic Diagram (GN)

17.9. AV Encoder/Real Time Stream Control (RTSC) Section (Digital P.C.B. (2/5)) Schematic Diagram (EN)

17.10. Real Time Stream Control (RTSC) Section (Digital P.C.B. (3/5)) Schematic Diagram (TR)

17.11. AV Decoder/Main CPU Section (Digital P.C.B. (4/5)) Schematic Diagram (MC)

17.12. Audio I/O Section (Digital P.C.B. (5/5)) Schematic Diagram (AI)

17.13. VIF Decoder Schematic Diagram (For DMR-E85HEB)

17.14. VIF Decoder Schematic Diagram (For DMR-E85HEG)

17.15. Nicam Decoder Schematic Diagram

17.16. Scart Schematic Diagram

17.17. Front (R) Schematic Diagram

18. Print Circuit Board

18.1. Power P.C.B.

18.2. Main P.C.B.

18.2.1. Main P.C.B. (1/4 Section)

18.2.2. Main P.C.B. (2/4 Section)

18.2.3. Main P.C.B. (3/4 Section)

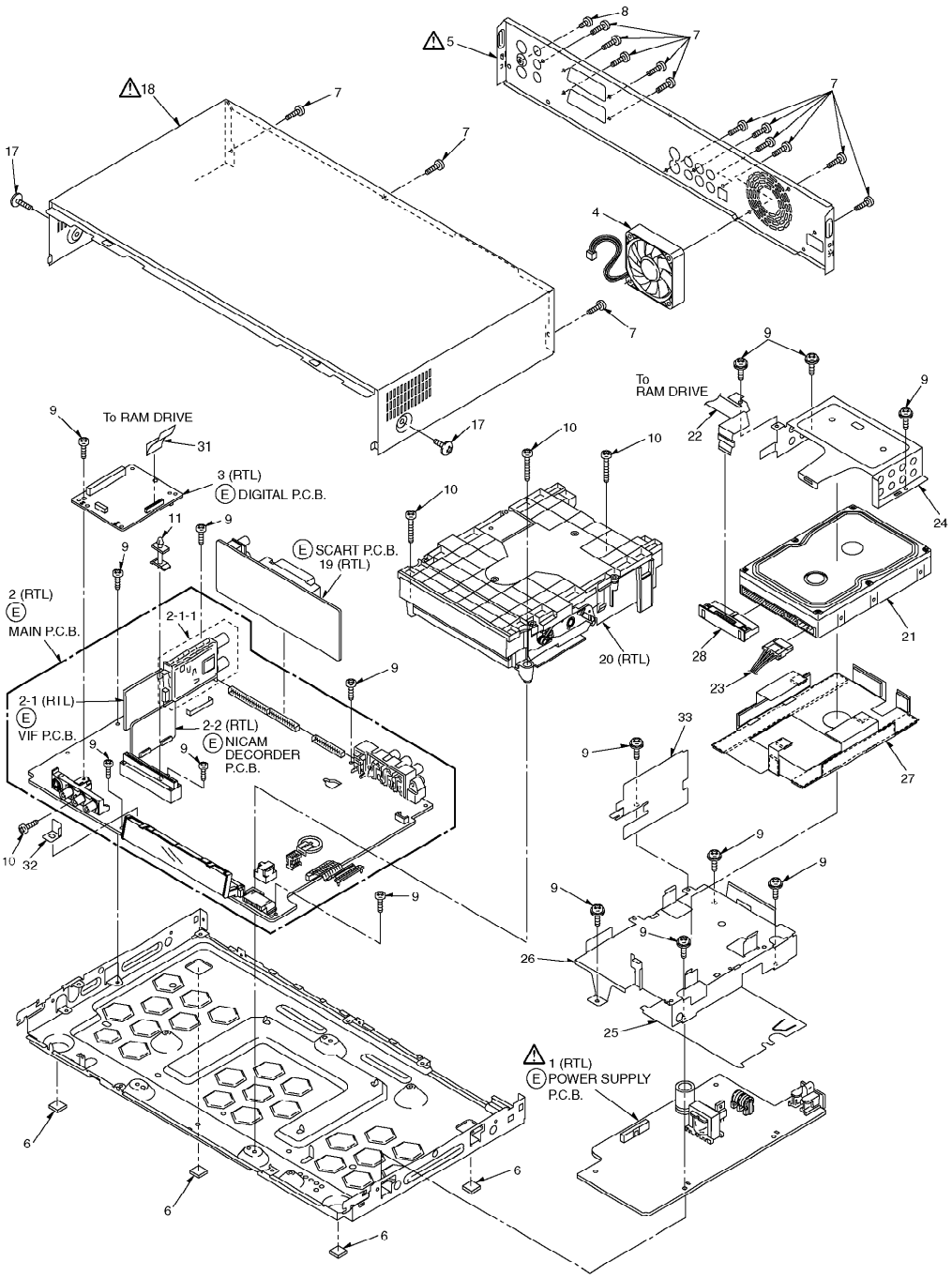
18.2.4. Main P.C.B. (4/4 Section)

18.2.5. Main P.C.B. Address Information

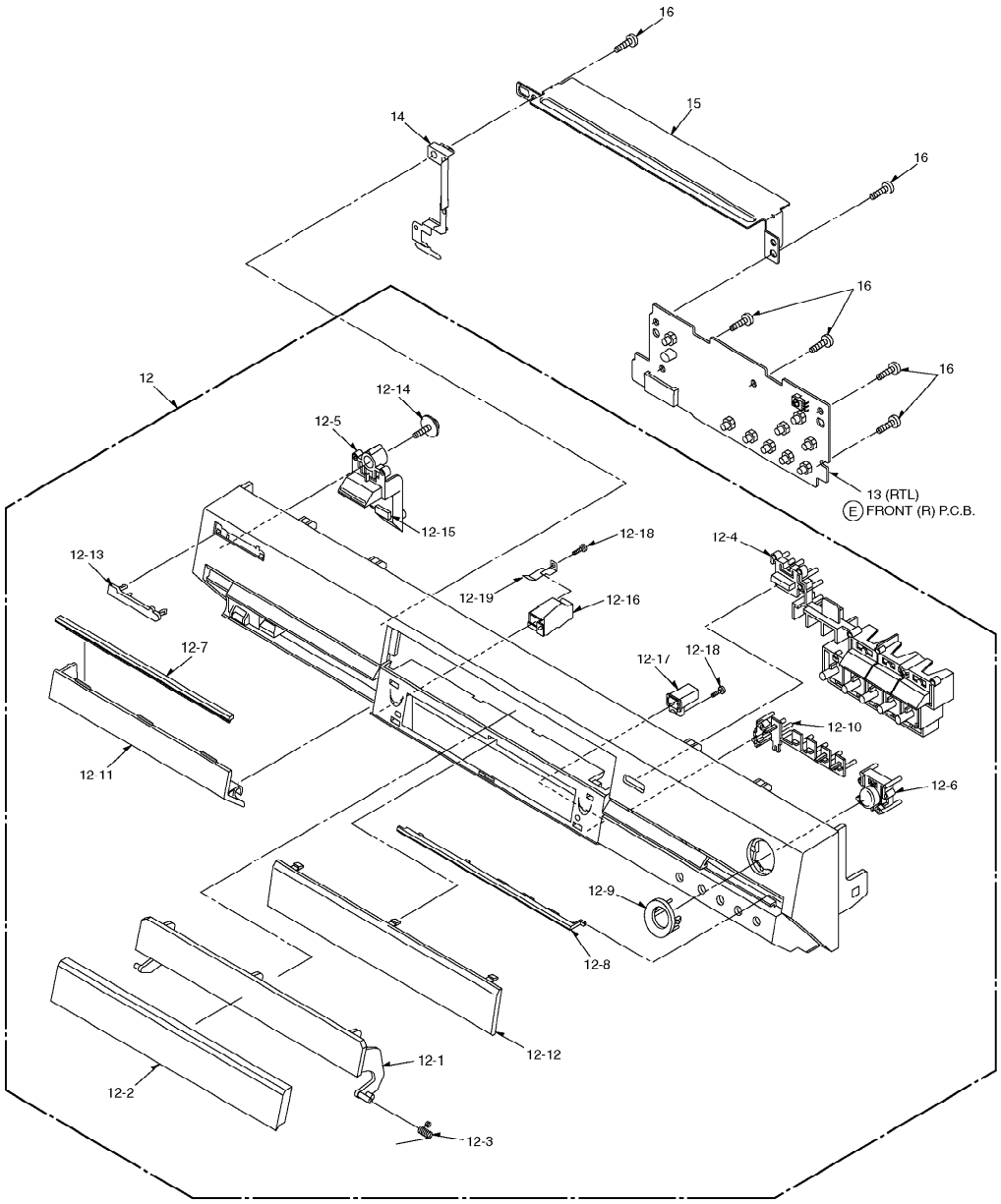
18.3. Digital P.C.B.

18.3.1. Digital P.C.B. (Component Side)

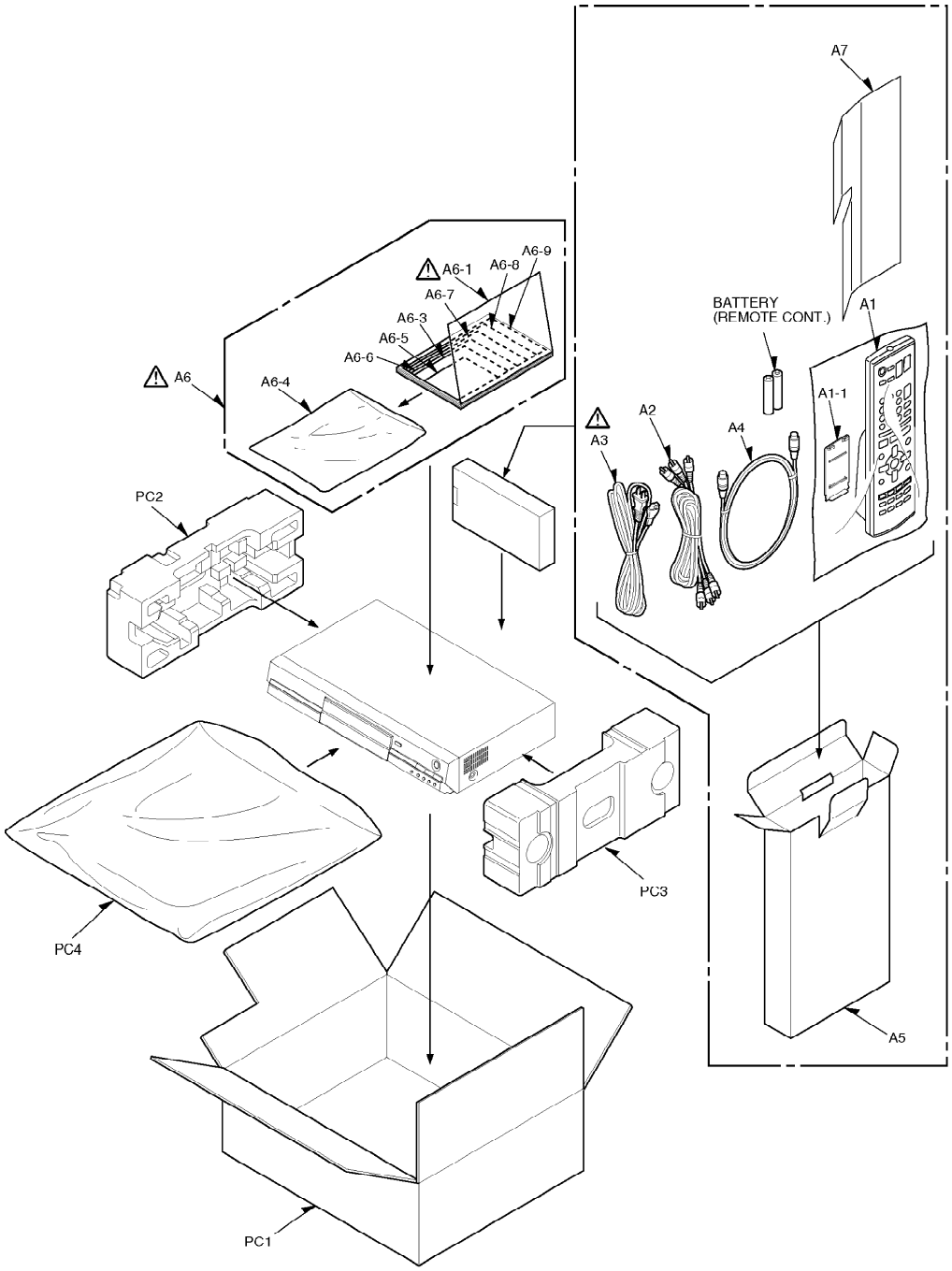
18.3.2. Digital P.C.B. (Foil Side)
18.3.3. Digital P.C.B. Address Information
18.4. VIF Decoder P.C.B. (For DMR-E85HEB)
18.5. VIF Decoder P.C.B. (For DMR-E85HEG)
18.6. Nicam Decoder P.C.B.
18.7. Scart P.C.B.
18.7.1. Scart P.C.B. (Section 1/2)
18.7.2. Scart P.C.B. (Section 2/2)
18.8. Front (R) P.C.B.
19. Exploded Views
19.1. Casing Parts & Mechanism Section 1




## 19.2. Casing Parts & Mechanism Section 2




## 19.3. Packing & Accessories Section




# 20. Replacement Parts List

**Notes:**

***Important safety notice:**

**Components identified by ⚠ mark have special characteristics important for safety.**

**Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.**

**When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.**

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads ( μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**
***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**
***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**
***"<IA>"-"<IF>", marks in Remarks indicate languages of instruction manuals. [<IA>: English/ Spanish, <IB>: French/ Netherlands, <IC>:Swedish/ Danish, <ID>: English, <IE>: German/ Italian]**

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| ■ | 01 | CASING/ACCESSORY/PACKING | | |
| | | | | |
| 1 | ETXMM507E4F | POWER SUPPLY P.C.B. | 1 | (RTL) ⚠ |
| 2 | REP3766A | MAIN P.C.B. | 1 | (RTL)EG |
| 2 | REP3766B | MAIN P.C.B. | 1 | (RTL)EB |
| 2-1 | VEP07A47B | VIF P.C.B. | 1 | (RTL)EG |
| 2-1 | VEP07A71M | VIF P.C.B. | 1 | (RTL)EB |
| 2-1-1 | VMP5897 | VIF ANGLE | 1 | |
| 2-2 | VEP07A51A | NICOM DECODER P.C.B. | 1 | (RTL) |
| 3 | RFKBE85HEB | DIGITAL P.C.B. | 1 | EB |
| 3 | REP3712H | DIGITAL P.C.B. | 1 | EG |
| 4 | L6FAKCCE0002 | FAN MOTOR | 1 | |
| 5 | RGR0350C1A | REAR PANEL | 1 | EG ⚠ |
| 5 | RGR0350C1C1 | REAR PANEL | 1 | EB ⚠ |
| 6 | RKA0144-K | FOOT RUBBER | 4 | |
| 7 | VHD0690 | SCREW | 14 | |
| 8 | XSN3+4FZ | SCREW | 1 | |
| 9 | RHD30111 | SCREW | 15 | |
| 10 | RHD30115 | SCREW | 4 | |
| 11 | RMX0298 | PCB SPACER | 1 | |
| 12 | RYP1243B-K | FRONT PANEL ASS'Y1 | 1 | EG-K |
| 12 | RYP1243B-S | FRONT PANEL ASS'Y1 | 1 | EG-S |
| 12 | RYP1243C-S | FRONT PANEL ASS'Y1 | 1 | EB |
| 12-1 | RKF0700-K | TRAY DOOR | 1 | EG-K |
| 12-1 | RKF0700-S | TRAY DOOR | 1 | EB,EG-S |
| 12-2 | RGK1810-K | TRAY ORNAMENT | 1 | EG-K |
| 12-2 | RGK1810-S | TRAY ORNAMENT | 1 | EB,EG-S |
| 12-3 | VMB3410 | SPRING | 1 | |
| 12-4 | RGU2318A-K | OPERATION BUTTON | 1 | EG-K |
| 12-4 | RGU2318A-S | OPERATION BUTTON | 1 | EB,EG-S |
| 12-5 | RGU2289-K | POWER BUTTON | 1 | EG-K |
| 12-5 | RGU2289-S | POWER BUTTON | 1 | EB,EG-S |
| 12-6 | RGU2291A-Q | REC BUTTON | 1 | |
| 12-7 | RGK1774-S | FRONT ORNAMENT(L) | 1 | |
| 12-8 | RGK1775-S | FRONT ORNAMENT(R) | 1 | |
| 12-9 | RGK1773-S | REC BUTTON RING | 1 | |
| 12-10 | RGL0663-Q | PANEL LIGHT | 1 | |
| 12-11 | RKF0689B-K | PANEL DOOR | 1 | EG-K |
| 12-11 | RKF0689B-S | PANEL DOOR | 1 | EG-S |
| 12-11 | RKF0689C-S | PANEL DOOR | 1 | EB |
| 12-12 | RGK1811-Q | FL ORNAMENT | 1 | EG-K |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| 12-12 | RGK1811-S | FL ORNAMENT | 1 | EB,EG-S |
| 12-13 | VGB0560 | PANASONIC BADGE | 1 | |
| 12-14 | RHD26016 | SCREW | 1 | |
| 12-15 | RMX0299 | DAMPER SHEET | 1 | |
| 12-16 | RMR1637-W | REFLECTOR DVD | 1 | |
| 12-17 | RMR1638-W | REFLECTOR HDD | 1 | |
| 12-18 | XTN2+6G | SCREW | 2 | |
| 12-19 | RMR1655-W | REFLECTOR COVER | 1 | |
| 13 | REP3713B | FRONT(R) P.C.B. | 1 | (RTL) |
| 14 | RMC0595 | EARTH PLATE | 1 | |
| 15 | RMA1778 | FRONT ANGLE | 1 | |
| 16 | XTBS26+10J | SCREW | 6 | |
| 17 | RHD30113 | SCREW | 2 | EB,EG-S |
| 17 | RHD30113-K | SCREW | 2 | EG-K |
| 18 | RKM0508Z-K | TOP COVER | 1 | EG-K ⚠ |
| 18 | RKM0508Z-S | TOP COVER | 1 | EB,EG-S ⚠ |
| 19 | REP3682A | SCART P.C.B. | 1 | (RTL) |
| 20 | VXY1814 | RAM DRIVE UNIT | 1 | (RTL) |
| 21 | RFKV0033HDK | HDD 80GB | 1 | |
| 22 | VEK0G75 | FFC(42P) | 1 | |
| 23 | VEE0Z41 | WIRE WITH CONNECTOR | 1 | |
| 24 | RMA1835 | HDD HOLDER | 1 | |
| 25 | RMZ0747 | INSULATED SHEET | 1 | |
| 26 | RMA1834 | HDD BRACKET | 1 | |
| 27 | RXQ1208 | SUPER SHEET UNIT | 1 | |
| 28 | K1MZ40Z00002 | HDD CONNECTOR | 1 | |
| 31 | VWJ1724 | FFC(42P) | 1 | |
| 32 | RMR1656-W | LED HOLDER | 1 | |
| 33 | RMV0282 | BARRIER | 1 | |
| | | | | |
| A1 | EUR7721KH0 | REMOTE CONTROL ASS'Y | 1 | EG |
| A1 | EUR7721KJ0 | REMOTE CONTROL ASS'Y | 1 | EB |
| A1-1 | UR77EC2003A | BATTERY COVER | 1 | |
| A2 | K2KA6CA00001 | AV CORD | 1 | |
| A3 | RJA0053-3X | AC CORD | 1 | EB ⚠ |
| A3 | VJA0664 | AC CORD | 1 | K2CR2DA00004 EG ⚠ |
| A4 | VJA1089 | RF COAXIAL CABLE | 1 | K1TWACC00001 |
| A5 | RPQF0250 | ACCESSORY CASE | 1 | |
| A6 | RQF5451 | FAN BAG ASS'Y | 1 | EG ⚠ |
| A6 | RQF5454 | FAN BAG ASS'Y | 1 | EB ⚠ |
| A6-1 | RQT7453-E | OPERATING INSTRUCTIONS | 1 | <IA>EG ⚠ |
| A6-1 | RQT7455-H | OPERATING INSTRUCTIONS | 1 | <IB>EG ⚠ |
| A6-1 | RQT7456-J | OPERATING INSTRUCTIONS | 1 | <IC>EG ⚠ |
| A6-1 | RQT7458-B | OPERATING INSTRUCTIONS | 1 | <ID>EB ⚠ |
| A6-1 | RQT7454-D | OPERATING INSTRUCTIONS | 1 | <IE>EG ⚠ |
| A6-3 | RQCA1004 | DISC CAUTION SHEET | 1 | EB |
| A6-3 | RQCA1073 | DISC CAUTION SHEET | 1 | EG |
| A6-4 | RPF0378 | POLYETHYLENE BAG(F.B.) | 1 | EB |
| A6-4 | XZB25X34C03X | POLYETHYLENE BAG(F.B.) | 1 | EG |
| A6-5 | RQCC2041 | DVD MEDIA SHEET | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| A6-6 | RQCA1119 | HDD CAUTION SHEET | 1 | EB |
| A6-6 | RQCA1222 | HDD CAUTION SHEET | 1 | EG |
| A6-7 | RQCA1231 | PAL PROGRESSIVE SHEET | 1 | |
| A6-8 | RQCA1244 | DVD-R REC SHEET | 1 | EB |
| A6-8 | RQCA1245 | DVD-R REC SHEET | 1 | EG |
| A6-9 | RQCA1195 | SETUP GUIDE | 1 | EB |
| A7 | RPQ1594 | PAD | 1 | |
| | | | | |
| PC1 | RPG7129 | PACKING CASE | 1 | EG-S |
| PC1 | RPG7130 | PACKING CASE | 1 | EG-K |
| PC1 | RPG7132 | PACKING CASE | 1 | EB |
| PC2 | RPN1706A | CUSHION A | 1 | |
| PC3 | RPN1706B | CUSHION B | 1 | |
| PC4 | VPF0505 | POLYETHYLENE BAG(UNIT) | 1 | |
| | | | | |
| ■ | 02 | REP3766A/B | | (MAIN P.C.B.) |
| | | | | |
| C1503 | ECJ1VB1A105K | 10V 1U | 1 | |
| C1504 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C1505 | F2A1A470A388 | 10V 47U | 1 | |
| C1512 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C1513 | ECJ1VB1A105K | 10V 1U | 1 | |
| C1514 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C1515 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C1516 | ECJ1VB1A105K | 10V 1U | 1 | |
| C1518 | F2A1A470A388 | 10V 47U | 1 | |
| C1519 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C1520 | ECJ1VB1A105K | 10V 1U | 1 | |
| C1521 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C1522 | ECJ1VC1H331J | 50V 330P | 1 | |
| C1523 | ECJ1VB1A105K | 10V 1U | 1 | |
| C1524 | F2A1A470A388 | 10V 47U | 1 | |
| C1527,28 | ECJ1VB0J105K | 6.3V 1U | 2 | |
| C1531 | F2A1A470A388 | 10V 47U | 1 | |
| C1533,34 | ECJ1VB0J105K | 6.3V 1U | 2 | |
| C1537 | EEUFC1E101S | 25V 100U | 1 | |
| C1539 | F2A0J102A256 | 6.3V 1000U | 1 | |
| C1540 | F2A1E4700048 | 25V 47U | 1 | |
| C1541 | F2A1A471A211 | 10V 470U | 1 | |
| C1543 | F2A1E221A210 | 25V 220U | 1 | |
| C3003 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C3004 | ECEA1AKS221 | 10V 220U | 1 | |
| C3005 | ECJ1VB1C333K | 16V 0.033U | 1 | |
| C3006 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C3007 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C3009,10 | ECJ1VB1H103K | 50V 0.01U | 2 | |
| C3012-17 | ECJ1VB1H103K | 50V 0.01U | 6 | |
| C3018 | ECEA0JKS101 | 6.3V 100U | 1 | |
| C3019-21 | ECJ1VB1H103K | 50V 0.01U | 3 | |
| C3022 | ECEA0JKS220 | 6.3V 22U | 1 | |
| C3023 | ECEA0JKN470 | 6.3V 47U | 1 | |
| C3024 | ECEA0JKS220 | 6.3V 22U | 1 | |
| C3025-29 | ECEA0JKN470 | 6.3V 47U | 5 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C3030,31 | ECJ1VB1H103K | 50V 0.01U | 2 | |
| C3032 | ECEA0JKS331 | 6.3V 330U | 1 | |
| C3033 | ECEA1CKS220 | 16V 22U | 1 | |
| C3034 | ECEA0JKS331 | 6.3V 330U | 1 | |
| C3035 | ECEA1CKS220 | 16V 22U | 1 | |
| C3036 | ECEA0JKS331 | 6.3V 330U | 1 | |
| C3037 | ECEA1CKS220 | 16V 22U | 1 | |
| C3038 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C3039 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C3040 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C3041 | ECEA1AKS221 | 10V 220U | 1 | |
| C3042 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C3045,46 | ECEA0JKN470 | 6.3V 47U | 2 | |
| C3047 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C3048 | ECA0JM102 | 6.3V 1000U | 1 | |
| C3049 | ECEA0JKS101 | 6.3V 100U | 1 | |
| C3051 | ECA0JM102 | 6.3V 1000U | 1 | |
| C3052 | ECEA0JKS101 | 6.3V 100U | 1 | |
| C3053 | ECA0JM102 | 6.3V 1000U | 1 | |
| C3054 | ECEA0JKS101 | 6.3V 100U | 1 | |
| C3055,56 | ECEA0JKS331 | 6.3V 330U | 2 | |
| C3057-60 | ECJ1VC1H471J | 50V 470P | 4 | |
| C3061,62 | ECJ1VC1H470J | 50V 47P | 2 | |
| C3064 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C3065 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C3066,67 | ECJ1VB0J105K | 6.3V 1U | 2 | |
| C3069-71 | ECJ1VB1H103K | 50V 0.01U | 3 | |
| C4001,02 | F2A1H4R7A236 | 50V 4.7U | 2 | EB |
| C4003,04 | ECJ1VB1H103K | 50V 0.01U | 2 | |
| C4005-07 | F2A1H1R0A236 | 50V 1U | 3 | |
| C4008 | F2A1C221A019 | 16V 220U | 1 | |
| C4010 | F2A1H1R0A236 | 50V 1U | 1 | |
| C4011 | F2A1H100A236 | 50V 10U | 1 | EB |
| C4012 | ECJ2VB1E104K | 25V 0.1U | 1 | |
| C4013 | F2A1H1R0A236 | 50V 1U | 1 | EB |
| C4014 | F2A1H100A236 | 50V 10U | 1 | |
| C4015 | F2A1H1R0A236 | 50V 1U | 1 | EB |
| C4017 | F2A1H100A236 | 50V 10U | 1 | |
| C4019 | VCEA1CAE100 | 16V 10U | 1 | F2A1C1000008 |
| C4021 | VCEA1CAE100 | 16V 10U | 1 | F2A1C1000008 |
| C4022 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C4023 | F2A1H1R0A236 | 50V 1U | 1 | |
| C4024 | F2A1C471A236 | 16V 470U | 1 | |
| C4025 | F2A1H1R0A236 | 50V 1U | 1 | |
| C4026 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C4027 | F2A1H1R0A236 | 50V 1U | 1 | |
| C4029 | F2A1C471A236 | 16V 470U | 1 | |
| C4030 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C4031 | F2A1H1R0A236 | 50V 1U | 1 | |
| C4033,34 | F2A1C4700011 | 16V 47U | 2 | |
| C4039,40 | ECJ1VC1H100C | 50V 10P | 2 | |
| C4052 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C4053 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C4054 | F2A0J470A179 | 6.3V 47U | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C4055 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C4056 | F2A0J471A247 | 6.3V 470U | 1 | |
| C4057 | ECJ2VC1H680J | 50V 68P | 1 | |
| C4059 | ECQV1H104JL | 50V 0.1U | 1 | |
| C4060 | ECJ2VC1H680J | 50V 68P | 1 | |
| C4061 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C4062 | ECA1AM221 | 10V 220U | 1 | |
| C4063,64 | F2A1C4700011 | 16V 47U | 2 | |
| C4065 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C4067 | F2A0J470A179 | 6.3V 47U | 1 | |
| C4069 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C4070 | ECA1AM221 | 10V 220U | 1 | |
| C4072 | ECA1AM221 | 10V 220U | 1 | |
| C4074,75 | ECJ1VF1C104Z | 16V 0.1U | 2 | |
| C4076 | F2A1C471A236 | 16V 470U | 1 | |
| C4077 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C4082,83 | ECJ2VC1H561J | 50V 560P | 2 | |
| C4091 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C4092 | F2A1C221A019 | 16V 220U | 1 | |
| C7401 | F2A1C471A236 | 16V 470U | 1 | |
| C7402 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7403 | F2A0J470A179 | 6.3V 47U | 1 | |
| C7404 | ECEA0JKS470 | 6.3V 47U | 1 | |
| C7405,06 | ECJ1XB1C104K | 16V 0.1U | 2 | ECJ1VB1C104K |
| C7407 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7408 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7409-12 | ECJ1VB1H103K | 50V 0.01U | 4 | |
| C7414 | ECEA1HKS010 | 50V 1U | 1 | |
| C7415-17 | ECEA0JKS470 | 6.3V 47U | 3 | |
| C7418,19 | ECJ1VC1H330J | 50V 33P | 2 | |
| C7420 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7421,22 | ECJ1VB1H103K | 50V 0.01U | 2 | |
| C7423 | ERJ3GEY0R00V | 1/10W 0 | 1 | EG |
| C7424 | ECEA0JKS470 | 6.3V 47U | 1 | |
| C7425 | ECJ1VC1H330J | 50V 33P | 1 | EG |
| C7426 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7427 | ECJ1VB1H222K | 50V 2200P | 1 | |
| C7428 | ECJ2VB1H103K | 50V 0.01U | 1 | |
| C7429 | ECJ1VB1H332K | 50V 3300P | 1 | EB |
| C7429 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K EG |
| C7431-33 | ECEA0JKS470 | 6.3V 47U | 3 | |
| C7434 | ECJ1VC1H330J | 50V 33P | 1 | EG |
| C7439 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7440 | ECEA0JKS470 | 6.3V 47U | 1 | |
| C7441 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7502-04 | F2A0J470A012 | 6.3V 47U | 3 | |
| C7507 | VCE0073-T | CAPACITOR | 1 | F4D55473A005 |
| C7508,09 | ECJ1VC1H221J | 50V 220P | 2 | |
| C7511 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C7512 | ECJ1VC1H470J | 50V 47P | 1 | |
| C7513 | ECJ1VC1H471J | 50V 470P | 1 | |
| C7514 | ECJ1VC1H470J | 50V 47P | 1 | |
| C7515 | ECJ1VC1H471J | 50V 470P | 1 | |
| C7516,17 | ECJ1XB1C104K | 16V 0.1U | 2 | ECJ1VB1C104K |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C7525 | ECJ1VC1H101J | 50V 100P | 1 | |
| C7526 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7527 | F2A0J470A012 | 6.3V 47U | 1 | |
| C7528 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C7529 | F2A0J470A012 | 6.3V 47U | 1 | |
| C7546 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7550 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7551 | ECA1HHG100 | 50V 10U | 1 | |
| C7552 | ECJ1VF1H104Z | 50V 0.1U | 1 | |
| C7555 | F2A1E221A210 | 25V 220U | 1 | |
| C7556 | ECA1CHG221 | 16V 220U | 1 | |
| C7558 | ECA1VHG470 | 35V 47U | 1 | |
| C7559 | ECQB1H223KF3 | 50V 0.022U | 1 | |
| C7560 | ECA1HHG100 | 50V 10U | 1 | |
| C7562 | ECJ2YB0J475K | 6.3V 4.7U | 1 | F1J0J475A008 |
| C7563 | ECJ1VC1H101J | 50V 100P | 1 | |
| C7565 | ECJ2YB0J475K | 6.3V 4.7U | 1 | F1J0J475A008 |
| C7566,67 | ECJ1XB1C104K | 16V 0.1U | 2 | ECJ1VB1C104K |
| C7568 | VCEA0JBS101 | 6.3V 100U | 1 | F2A0J1010003 |
| C7569 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C7580-82 | ECJ1VC1H100C | 50V 10P | 3 | |
| C7583 | ECJ1VC1H101J | 50V 100P | 1 | |
| C7584,85 | ECJ1VC1H180J | 50V 18P | 2 | |
| C7586 | ECJ1VC1H220J | 50V 22P | 1 | |
| C7587 | ECJ1VC1H180J | 50V 18P | 1 | |
| C7588 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7589 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C7590 | F2A0J470A012 | 6.3V 47U | 1 | |
| C7592,93 | ECJ1VC1H100C | 50V 10P | 2 | |
| C7594 | F2A0J470A012 | 6.3V 47U | 1 | |
| C7595 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7596 | ECJ1VC1H470J | 50V 47P | 1 | |
| C7597 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7598 | ECJ1VC1H470J | 50V 47P | 1 | |
| C7599 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7600 | ECJ1VC1H470J | 50V 47P | 1 | |
| C7601 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7602 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7603 | F2A0J470A012 | 6.3V 47U | 1 | |
| C7604 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7605,06 | ECJ1VC1H100C | 50V 10P | 2 | |
| C7607 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7608 | F2A0J470A012 | 6.3V 47U | 1 | |
| C7609,10 | ECJ1VC1H100C | 50V 10P | 2 | |
| C7611-13 | ECJ1VB1H103K | 50V 0.01U | 3 | |
| C7618 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7620 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7626 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7633 | VCEA0JBS101 | 6.3V 100U | 1 | F2A0J1010003 |
| C7636 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C7637 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C7639 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C7646 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C7650 | ECJ1VB1H103K | 50V 0.01U | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C7652 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| | | | | |
| D1501 | MA165TA5 | DIODE | 1 | MA2C16500E |
| D4001 | MA165TA5 | DIODE | 1 | MA2C16500E |
| D4005,06 | MA3Z142D0RG | DIODE | 2 | |
| D7401 | MA165TA5 | DIODE | 1 | MA2C16500E |
| D7402 | MA4300N-M | DIODE | 1 | MAZ4300NM |
| D7403 | MA165TA5 | DIODE | 1 | MA2C16500E |
| D7501 | MAZ4240NMF | DIODE | 1 | |
| D7502 | B0AAGM000003 | DIODE | 1 | B0AAGM000007 |
| D7504,05 | MA2C18500E | DIODE | 2 | |
| D7506 | MAZ4300NLF | DIODE | 1 | |
| D7507 | 1SS355 | DIODE | 1 | B0ACCK000005 |
| D7508 | B0JDCE000002 | DIODE | 1 | |
| D7512 | B3AEA0000049 | DIODE | 1 | |
| | | | | |
| DP7501 | A2BD00000074 | FL DISPLAY TUBE | 1 | |
| | | | | |
| DU7402 | ENG47328G1Y | TV TUNERS | 1 | EB |
| DU7402 | ENV57G04H6 | TUNER PACK | 1 | EG |
| | | | | |
| IC1502 | C0DBAHG00013 | IC | 1 | |
| IC1505 | C0CBCDD00008 | IC | 1 | |
| IC1506 | C0CBCDD00002 | IC | 1 | |
| IC1507 | C0CBCDD00006 | IC | 1 | |
| IC1508 | C0DBEGD00002 | IC | 1 | |
| IC1509 | C0DBEFG00003 | IC | 1 | |
| IC1510 | C0DBEGG00003 | IC | 1 | |
| IC3001 | C1AB00001979 | IC | 1 | |
| IC3002 | C1AB00001486 | IC | 1 | |
| IC3003 | C9ZB00000377 | IC | 1 | |
| IC4001 | C1AB00001920 | IC | 1 | |
| IC4005 | TC7W04FTE12L | IC | 1 | C0JBAB000178 |
| IC4006 | K7AAAB000013 | IC | 1 | |
| IC4007 | TC7SET08F | IC | 1 | C0JBAA000284 |
| IC4009 | C0ABBB000216 | IC | 1 | |
| IC4010 | C0DBZJE00003 | IC | 1 | |
| IC4011 | C0CBCDD00002 | IC | 1 | |
| IC4012 | C0ABBB000118 | IC | 1 | |
| IC4013 | AN78L09M | IC | 1 | |
| IC7401 | C0DBZJE00003 | IC | 1 | |
| IC7402 | C0DBCHD00002 | IC | 1 | |
| IC7403 | C0DBZHG00016 | IC | 1 | |
| IC7501 | C2CBJG000443 | IC | 1 | |
| IC7502 | C0HBB0000033 | IC | 1 | |
| IC7503 | C0EBJ0000110 | IC | 1 | |
| IC7504 | C3EBJC000038 | IC | 1 | |
| IC7505 | C0EBE0000194 | IC | 1 | |
| IC7506 | NJM2904M | IC | 1 | C0ABBA000021 |
| IC7508 | C0EBE0000218 | IC | 1 | |
| | | | | |
| IP7501 | ICP-N10T104 | IC PROTECTOR | 1 | B1ZAZ0000035 ⚠ |
| | | | | |
| JK3001 | K1U822B00003 | JACK,AV IN/OUT | 1 | |

| | | | | |
|---|---|---|---|---|
| [redacted] | [redacted] | [redacted] | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| JK7501 | K1U415B00001 | JACK,AV3 | 1 | |
| | | | | |
| K7508 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| K7510,11 | ERJ3GEY0R00V | 1/10W 0 | 2 | |
| K7514,15 | ERJ3GEY0R00V | 1/10W 0 | 2 | |
| | | | | |
| L1501 | G0A220G00018 | COIL 22UH | 1 | |
| L4002 | ELESE220KA | COIL 22UH | 1 | |
| L7401 | G0A220G00018 | COIL 22UH | 1 | |
| L7402 | VLQ0599J270 | COIL 27UH | 1 | G0C270JA0026 EB |
| L7403 | G0C2R2JA0019 | COIL 2.2UH | 1 | |
| | | | | |
| LB1501 | J0JHC0000032 | COIL | 1 | |
| LB1503 | J0JHC0000032 | COIL | 1 | |
| LB1504,05 | J0JKB0000003 | COIL | 2 | |
| LB3002-04 | J0JHC0000032 | COIL | 3 | |
| LB3005 | J0JBC0000011 | COIL | 1 | |
| LB3006 | J0JGC0000020 | COIL | 1 | |
| LB3007 | J0JBC0000011 | COIL | 1 | |
| LB3008 | J0JGC0000020 | COIL | 1 | |
| LB4001 | J0JGC0000020 | COIL | 1 | |
| LB7401 | J0JCC0000120 | COIL | 1 | EB |
| LB7402-10 | J0JHC0000032 | COIL | 9 | |
| LB7501,02 | ERJ3GEY0R00V | 1/10W 0 | 2 | |
| LB7503 | J0JKB0000037 | COIL | 1 | |
| LB7504 | J0JGC0000020 | COIL | 1 | |
| LB7506,07 | J0JGC0000020 | COIL | 2 | |
| LB7508 | VLP0175 | COIL | 1 | J0JCC0000060 |
| LB7509-11 | J0JGC0000020 | COIL | 3 | |
| LB7512-14 | J0JCC0000103 | COIL | 3 | |
| LB7515,16 | J0JBC0000011 | COIL | 2 | |
| | | | | |
| P1501 | K1KA08A00427 | CONNECTOR(8P) | 1 | |
| P1502 | K1KA23A00004 | CONNECTOR(23P) | 1 | |
| P7402 | K1KA88A00002 | CONNECTOR(88P) | 1 | |
| P7503 | K1KA03A00173 | CONNECTOR(3P) | 1 | |
| P7504 | K1KB12B00049 | CONNECTOR(12P) | 1 | |
| | | | | |
| PP7401 | VJP3042G020W | CONNECTOR(20P) | 1 | K1KA20A00203 |
| PP7402 | VJP3042G018W | CONNECTOR(18P) | 1 | K1KA18A00041 |
| PP7403 | K1KA15A00064 | CONNECTOR(15P) | 1 | |
| | | | | |
| Q3006,07 | 2SB1218A | TRANSISTOR | 2 | |
| Q3009,10 | 2SB1218A | TRANSISTOR | 2 | |
| Q4004 | 2SB1218A | TRANSISTOR | 1 | |
| Q4006-09 | 2SD132800L | TRANSISTOR | 4 | |
| Q7401 | 2SD1819AWL | TRANSISTOR | 1 | |
| Q7402 | 2SB1218A | TRANSISTOR | 1 | |
| Q7404-06 | 2SD0601A | TRANSISTOR | 3 | |
| Q7503 | 2SD1994B | TRANSISTOR | 1 | |
| Q7505 | 2SB0709ARL | TRANSISTOR | 1 | |
| Q7506 | 2SD1819AWL | TRANSISTOR | 1 | |
| Q7507 | 2SB0709ARL | TRANSISTOR | 1 | |
| Q7508 | 2SD1819AWL | TRANSISTOR | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| Q7511 | 2SD0601A | TRANSISTOR | 1 | |
| Q7512 | 2SD0874A0L | TRANSISTOR | 1 | |
| Q7517 | 2SD0601A | TRANSISTOR | 1 | |
| Q7518 | 2SD1819AWL | TRANSISTOR | 1 | |
| Q7519 | 2SD0601A | TRANSISTOR | 1 | |
| | | | | |
| QR3002,03 | UN5212TX | TRANSISTOR | 2 | UNR521200L |
| QR4002-05 | UN5211 | TRANSISTOR | 4 | UNR5211 |
| QR4012 | UN5113TW | TRANSISTOR | 1 | |
| QR7401-03 | UN5213TX | TRANSISTOR | 3 | UNR521300L |
| QR7404 | UNR511400L | TRANSISTOR | 1 | |
| QR7405 | UN5213TX | TRANSISTOR | 1 | UNR521300L |
| QR7406 | UN2115TW | TRANSISTOR | 1 | UNR211500L EB |
| QR7407 | UN2215 | TRANSISTOR | 1 | UNR2215 EB |
| QR7501 | UN5113TW | TRANSISTOR | 1 | |
| QR7502 | UN5212TX | TRANSISTOR | 1 | UNR521200L |
| QR7503 | UN5214TX | TRANSISTOR | 1 | UNR521400L |
| QR7508 | UN5213TX | TRANSISTOR | 1 | UNR521300L EG |
| | | | | |
| R1501 | ERJ3GEYJ822V | 1/10W 8.2K | 1 | D0GB822JA002 |
| R1502 | ERJ3GEYJ332V | 1/10W 3.3K | 1 | D0GB332JA002 |
| R1503 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R1504 | ERDS2FJ271 | 1/4W 270 | 1 | |
| R1506 | ERDS2FJ271 | 1/4W 270 | 1 | |
| R1507 | ERJ3RED330 | 1/16W 33 | 1 | |
| R1508 | ERJ3RBD201 | 1/16W 200 | 1 | |
| R1509 | ERJ3RBD102V | 1/16W 1K | 1 | |
| R1510 | ERJ3RED220 | 1/16W 22 | 1 | |
| R1511 | ERJ3RBD182V | 1/16W 1.8K | 1 | |
| R1512 | ERJ3RBD202 | 1/16W 2K | 1 | |
| R1515,16 | ERDS2FJ271 | 1/4W 270 | 2 | |
| R3026 | ERJ3RED150V | 1/16W 15 | 1 | |
| R3027,28 | ERJ3RBD471V | 1/16W 470 | 2 | |
| R3029 | ERJ3RBD104 | 1/16W 100K | 1 | |
| R3030 | ERJ3GEYJ105V | 1/10W 1M | 1 | |
| R3037 | ERJ3GEYJ102V | 1/10W 1K | 1 | |
| R3038 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R3044 | ERJ3GEYJ330V | 1/10W 33 | 1 | D0GB330JA002 |
| R3045,46 | ERJ3GEYJ221V | 1/10W 220 | 2 | |
| R3047 | ERJ3RBD153 | 1/16W 15K | 1 | |
| R3048 | ERJ3RBD182V | 1/16W 1.8K | 1 | |
| R3049 | ERJ3RED330 | 1/16W 33 | 1 | |
| R3050 | ERJ3RBD182V | 1/16W 1.8K | 1 | |
| R3051 | ERJ3RED330 | 1/16W 33 | 1 | |
| R3052,53 | ERJ3GEYJ102V | 1/10W 1K | 2 | |
| R3054-59 | ERJ6GEYJ750V | 1/8W 75 | 6 | |
| R3060 | ERJ3EKF75R0 | 1/10W 75 | 1 | |
| R4001 | ERJ6GEYJ102V | 1/8W 1K | 1 | |
| R4002 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |
| R4004 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |
| R4005,06 | ERJ3GEY0R00V | 1/10W 0 | 2 | EG |
| R4006 | ERJ3GEYJ225V | 1/10W 2.2M | 1 | EB |
| R4007 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| R4008,09 | ERJ3GEYJ823V | 1/10W 82K | 2 | D0GB823JA002 |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R4010,11 | ERJ3GEYJ101 | 1/10W 100 | 2 | D0GB101JA002 |
| R4012 | ERJ3GEYJ333V | 1/10W 33K | 1 | D0GB333JA002 |
| R4013 | ERJ6GEYJ102V | 1/8W 1K | 1 | |
| R4014 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |
| R4015 | ERJ6GEYJ102V | 1/8W 1K | 1 | |
| R4017 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |
| R4018 | ERJ3GEY0R00V | 1/10W 0 | 1 | EG |
| R4019,20 | ERJ3GEYJ473V | 1/10W 47K | 2 | D0GB473JA002 |
| R4021,22 | ERJ3GEYJ823V | 1/10W 82K | 2 | D0GB823JA002 |
| R4023 | ERJ6GEYJ102V | 1/8W 1K | 1 | |
| R4046,47 | D0HB752ZA002 | 1/10W 7.5K | 2 | |
| R4049 | ERJ3GEY0R00V | 1/10W 0 | 1 | EB |
| R4052-54 | JAR0816P103D | 1/16W 10K | 3 | D0HB103ZA002 EB |
| R4055 | D0HB153ZA002 | 1/10W 15K | 1 | |
| R4056 | JAR0816P103D | 1/16W 10K | 1 | D0HB103ZA002 |
| R4057 | D0HB153ZA002 | 1/10W 15K | 1 | |
| R4060,61 | ERJ3GEYJ103V | 1/10W 10K | 2 | D0GB103JA002 EG |
| R4066,67 | JAR0816P103D | 1/16W 10K | 2 | D0HB103ZA002 |
| R4070 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R4071 | ERJ3GEYJ473V | 1/10W 47K | 1 | D0GB473JA002 |
| R4074 | ERJ3GEYJ473V | 1/10W 47K | 1 | D0GB473JA002 |
| R4076 | ERJ3GEYJ821V | 1/10W 820 | 1 | |
| R4077 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R4078,79 | ERJ3GEYJ272V | 1/10W 2.7K | 2 | |
| R4080 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R4081 | ERJ3GEYJ821V | 1/10W 820 | 1 | |
| R4087 | ERJ3GEYJ102V | 1/10W 1K | 1 | |
| R4088,89 | ERJ3GEYJ272V | 1/10W 2.7K | 2 | |
| R4090 | ERJ3GEYJ221V | 1/10W 220 | 1 | |
| R4093 | ERJ3GEYJ221V | 1/10W 220 | 1 | |
| R4099 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7401,02 | ERJ3GEYJ103V | 1/10W 10K | 2 | D0GB103JA002 |
| R7403 | ERJ3GEYJ392V | 1/10W 3.9K | 1 | |
| R7404 | ERJ3GEYJ472V | 1/10W 4.7K | 1 | |
| R7405 | ERDS2FJ471 | 1/4W 470 | 1 | |
| R7406 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7407 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |
| R7408 | ERJ3GEYD153V | 1/10W 15K | 1 | D0HB153ZA002 |
| R7409 | ERJ3GEYJ271V | 1/10W 270 | 1 | EB |
| R7410 | ERJ3GEYJ100 | 1/10W 10 | 1 | EB |
| R7411 | ERG2SJ471E | 2W 470 | 1 | |
| R7412 | ERJ3GEYJ681V | 1/10W 680 | 1 | D0GB681JA002 |
| R7413,14 | ERJ3GEYJ271V | 1/10W 270 | 2 | |
| R7415,16 | ERJ3GEYJ471V | 1/10W 470 | 2 | |
| R7417 | ERG2SJ471E | 2W 470 | 1 | |
| R7419 | ERJ3GEYJ151V | 1/10W 150 | 1 | EG |
| R7420 | ERJ3GEY0R00V | 1/10W 0 | 1 | EB |
| R7420 | ERJ3GEYJ151V | 1/10W 150 | 1 | EG |
| R7421,22 | ERJ3GEYJ101 | 1/10W 100 | 2 | D0GB101JA002 |
| R7423 | ERJ3GEYJ562V | 1/10W 5.6K | 1 | D0GB562JA002 EB |
| R7427 | ERJ3GEYJ102V | 1/10W 1K | 1 | |
| R7428 | ERJ3GEYJ333V | 1/10W 33K | 1 | D0GB333JA002 |
| R7429 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7430 | ERJ3GEYJ102V | 1/10W 1K | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R7431 | ERJ3GEYJ333V | 1/10W 33K | 1 | D0GB333JA002 |
| R7432 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7433 | ERJ3GEYJ102V | 1/10W 1K | 1 | |
| R7434 | ERJ3GEYJ333V | 1/10W 33K | 1 | D0GB333JA002 |
| R7435 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7436,37 | ERJ3GEYJ221V | 1/10W 220 | 2 | EG |
| R7438-42 | ERJ3GEYJ220V | 1/10W 22 | 5 | |
| R7443 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 EG |
| R7444 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| R7505 | ERJ3RBD273V | 1/16W 27K | 1 | |
| R7507 | ERDS2FJ331 | 1/4W 330 | 1 | |
| R7508 | ERDS2FJ5R6 | 1/4W 5.6 | 1 | |
| R7510 | ERJ3GEYJ332V | 1/10W 3.3K | 1 | D0GB332JA002 |
| R7513 | ERJ3GEYJ473V | 1/10W 47K | 1 | D0GB473JA002 |
| R7514 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7516 | ERJ3GEYJ102V | 1/10W 1K | 1 | |
| R7517 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| R7518 | ERJ3GEYJ392V | 1/10W 3.9K | 1 | |
| R7519 | ERJ3GEYJ102V | 1/10W 1K | 1 | |
| R7520 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| R7521 | ERJ3GEYG152 | 1/10W 1.5K | 1 | |
| R7522 | ERJ3GEYG562V | 1/10W 5.6K | 1 | |
| R7523 | ERJ3GEYD153V | 1/10W 15K | 1 | D0HB153ZA002 |
| R7530 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7531 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |
| R7532 | ERJ3GEYJ472V | 1/10W 4.7K | 1 | |
| R7533 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7534-37 | ERJ3GEYJ101 | 1/10W 100 | 4 | D0GB101JA002 |
| R7538 | ERJ3GEYJ472V | 1/10W 4.7K | 1 | |
| R7539 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| R7540 | ERJ3GEYJ332V | 1/10W 3.3K | 1 | D0GB332JA002 |
| R7541 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| R7542 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |
| R7543-45 | ERJ3GEYJ101 | 1/10W 100 | 3 | D0GB101JA002 |
| R7546,47 | ERJ3GEYJ472V | 1/10W 4.7K | 2 | |
| R7548 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7549 | ERJ3GEYJ511 | 1/10W 510 | 1 | |
| R7550,51 | ERJ3GEYJ202V | 1/10W 2K | 2 | |
| R7552 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7553 | ERJ3GEYJ472V | 1/10W 4.7K | 1 | |
| R7554 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7556-59 | ERJ3GEYJ101 | 1/10W 100 | 4 | D0GB101JA002 |
| R7561 | ERDS2TJ392 | 1/4W 3.9K | 1 | |
| R7562-64 | ERJ3GEYJ101 | 1/10W 100 | 3 | D0GB101JA002 |
| R7567 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7569 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7571-78 | ERJ3GEYJ101 | 1/10W 100 | 8 | D0GB101JA002 |
| R7579,80 | ERJ3GEYJ221V | 1/10W 220 | 2 | |
| R7581 | ERJ3GEYG393V | 1/10W 39K | 1 | |
| R7582 | ERJ3GEYG433 | 1/10W 43K | 1 | |
| R7583,84 | ERJ3GEYJ473V | 1/10W 47K | 2 | D0GB473JA002 |
| R7585,86 | ERJ3GEYJ223V | 1/10W 22K | 2 | D0GB223JA002 |
| R7588 | ERJ3GEYJ472V | 1/10W 4.7K | 1 | |
| R7589-91 | ERJ3RBD822 | 1/10W 8.2K | 3 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R7594 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7595,96 | ERJ3GEYJ473V | 1/10W 47K | 2 | D0GB473JA002 |
| R7597 | ERJ3GEYD153V | 1/10W 15K | 1 | D0HB153ZA002 |
| R7598 | ERJ3GEYJ181V | 1/10W 180 | 1 | |
| R7599 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7600,01 | ERJ3GEYJ103V | 1/10W 10K | 2 | D0GB103JA002 |
| R7602 | ERJ3GEYJ821V | 1/10W 820 | 1 | |
| R7603 | ERJ3GEYJ183V | 1/10W 18K | 1 | D0GB183JA002 |
| R7604-06 | ERJ3EKF75R0 | 1/10W 75 | 3 | |
| R7607 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7608 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| R7610-13 | ERJ3GEYJ101 | 1/10W 100 | 4 | D0GB101JA002 |
| R7617 | ERDS2FJ750 | 1/4W 75 | 1 | |
| R7619 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7620 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R7621 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7625-30 | ERJ3GEYJ101 | 1/10W 100 | 6 | D0GB101JA002 |
| R7631,32 | ERJ3GEYJ102V | 1/10W 1K | 2 | |
| R7633 | ERJ3RBD103V | 1/16W 10K | 1 | |
| R7634 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7635-37 | ERJ3GEYJ103V | 1/10W 10K | 3 | D0GB103JA002 |
| R7638 | ERJ3GEYJ472V | 1/10W 4.7K | 1 | |
| R7639 | ERJ3GEYJ473V | 1/10W 47K | 1 | D0GB473JA002 |
| R7640 | ERJ3GEYJ225V | 1/10W 2.2M | 1 | |
| R7641 | ERJ3GEYJ273V | 1/10W 27K | 1 | D0GB273JA002 |
| R7642 | ERJ3GEYJ224V | 1/10W 220K | 1 | D0GB224JA002 |
| R7643 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| R7644 | ERJ3GEYJ221V | 1/10W 220 | 1 | |
| R7645 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| R7646,47 | ERJ3GEYJ101 | 1/10W 100 | 2 | D0GB101JA002 |
| R7649 | ERJ3GEY0R00V | 1/10W 0 | 1 | EG |
| R7670 | ERJ3GEYJ472V | 1/10W 4.7K | 1 | EG |
| R7671 | ERJ3GEYJ682V | 1/10W 6.8K | 1 | D0GB682JA002 |
| R7672 | ERJ3GEYJ473V | 1/10W 47K | 1 | D0GB473JA002 |
| | | | | |
| S7501 | K0F111B00044 | SWITCH,POWER | 1 | |
| | | | | |
| T7501 | ETS13TB119AP | TRANSFORMER | 1 | ⚠ |
| | | | | |
| W500-05 | ERJ3GEY0R00V | 1/10W 0 | 6 | |
| W507-23 | ERJ3GEY0R00V | 1/10W 0 | 17 | |
| W529,30 | ERJ3GEY0R00V | 1/10W 0 | 2 | |
| W534-37 | ERJ3GEY0R00V | 1/10W 0 | 4 | |
| W538,39 | ERJ6GEY0R00V | 1/8W 0 | 2 | |
| W540-42 | ERJ3GEY0R00V | 1/10W 0 | 3 | |
| | | | | |
| X7501 | H0D100500016 | CRYSTAL OSCILLATOR | 1 | |
| X7502 | H0A327200026 | OSCILLATOR | 1 | |
| | | | | |
| ZJ3001 | VJR0978 | EARTH ANGLE | 1 | K9ZZ00000424 |
| ZJ7401-04 | VJR0978 | EARTH ANGLE | 4 | K9ZZ00000424 |
| ZJ7501 | VJR0978 | EARTH ANGLE | 1 | K9ZZ00000424 |
| | | | | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| ■ | 03 | VEP07A71M/VEP07A47B | | (VIF P.C.B.) |
| | | | | |
| C0701 | ECEA1HKS010 | 50V 1U | 1 | EB |
| C0701 | ECJ1VF1H103Z | 50V 0.01U | 1 | EG |
| C0702 | ECUV1H151JCG | 50V 150P | 1 | ECJ2VC1H151J EG |
| C0702 | ERJ3GEYJ102V | 1/10W 1K | 1 | EB |
| C0703 | ECEA1HKS010 | 50V 1U | 1 | EB |
| C0703 | ECJ1VF1H103Z | 50V 0.01U | 1 | EG |
| C0704 | ECJ1VB1E683K | 25V 0.0683U | 1 | EB |
| C0704 | ECUX1H270JCX | 50V 27P | 1 | ECJ2VC1H270J EG |
| C0705 | ECJ1VB1E104K | 25V 0.1U | 1 | EB |
| C0705 | ECJ1VF1H103Z | 50V 0.01U | 1 | EG |
| C0706 | ECJ2VF1H103Z | 50V 0.01U | 1 | EG |
| C0706 | ECJ2XB1H333K | 50V 0.033U | 1 | EB |
| C0707 | ECEA1HKAR47B | 50V 0.47U | 1 | EB |
| C0707-10 | ECJ1VF1H103Z | 50V 0.01U | 4 | |
| C0711 | ECEA1CKS220 | 16V 22U | 1 | EB |
| C0712 | ECJ1VF1C104Z | 16V 0.1U | 1 | EB |
| C0712 | ECJ2VF1C474Z | 50V 0.47U | 1 | EG |
| C0713 | ECEA0JKS101 | 6.3V 100U | 1 | EB |
| C0714 | ECJ1VF1H103Z | 50V 0.01U | 1 | EG |
| C0714 | ECJ2XF1C105Z | 16V 1U | 1 | EB |
| C0715 | ECJ1VF1H103Z | 50V 0.01U | 1 | EG |
| C0716 | ECJ1VC1H391J | 50V 390P | 1 | EG |
| C0717 | ECJ1VF1H103Z | 50V 0.01U | 1 | EG |
| C0719 | ECJ2VF1C474Z | 50V 0.47U | 1 | EG |
| C0720,21 | ECJ1VF1H103Z | 50V 0.01U | 2 | EG |
| C0721 | ECUV1H330JCG | 50V 33P | 1 | ECJ2VC1H330J EB |
| C0722 | ECJ2XF1H104Z | 50V 0.1U | 1 | EG |
| C0723 | ECEA1CKS101 | 16V 100U | 1 | EG |
| C0724 | ECJ2VF1H103Z | 50V 0.01U | 1 | EB |
| C0725 | ECEA1HKS2R2 | 50V 2.2U | 1 | EG |
| C0725 | ECJ1VC1H120J | 50V 12P | 1 | EB |
| C0726 | ECJ1VB1H152K | 50V 1500P | 1 | EG |
| C0727 | ECJ1VC1H390J | 50V 39P | 1 | EB |
| C0728 | ECEA1HKS0R1 | 50V 0.1U | 1 | EG |
| C0728 | ECJ1VC1H560J | 50V 56P | 1 | EB |
| C0729 | ECJ1VF1H103Z | 50V 0.01U | 1 | EG |
| C0730 | ECEA1CKS220 | 16V 22U | 1 | EG |
| C0730 | ECJ1VC1H220J | 50V 22P | 1 | EB |
| C0732 | ECJ1VC1H101J | 50V 100P | 1 | EB |
| C0733 | ECEA1HKAR22 | 50V 0.22U | 1 | EG |
| C0734 | ECJ1VB1H152K | 50V 1500P | 1 | EG |
| C0735 | ECJ1VF1H103Z | 50V 0.01U | 1 | EG |
| C0738 | ECJ1VC1H390J | 50V 39P | 1 | EG |
| C0739 | ECJ1VC1H470J | 50V 47P | 1 | EG |
| C0740 | ERJ3GEY0R00V | 1/10W 0 | 1 | EG |
| C0741 | ECJ1VF1H103Z | 50V 0.01U | 1 | EG |
| C0742 | ECJ1VC1H470J | 50V 47P | 1 | EG |
| C0743 | ECJ1VC1H180J | 50V 18P | 1 | EG |
| | | | | |
| D0701 | MA80WA | DIODE | 1 | MA3Z080D EG |
| D0703 | MA80WK | DIODE | 1 | MA3Z080E EG |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| IC0701 | C1AB00001598 | IC | 1 | EG |
| IC0701 | C1AB00001924 | IC | 1 | EB |
| | | | | |
| K0709 | ERJ3GEY0R00V | 1/10W 0 | 1 | EB |
| | | | | |
| L0701 | ELJNAR27JF | COIL 27UH | 1 | EB |
| L0702 | ELJNAR18JF | COIL 18UH | 1 | EG |
| L0703 | ELJNA3R3JF | COIL 3.3UH | 1 | EB |
| L0703 | ELJNAR68JF | COIL 68UH | 1 | EG |
| L0704-07 | ELJFA151KF | COIL 150UH | 4 | EG |
| | | | | |
| PK0701 | VJR0826E009W | CONNECTOR(9P) | 1 | K1MR09A00028 |
| | | | | |
| PP0701 | VJP3589E004B | CONNECTOR(4P) | 1 | K1KA04B00135 |
| | | | | |
| Q0702 | 2SB0709ARL | TRANSISTOR | 1 | EB |
| Q0702 | 2SD0601ASL | TRANSISTOR | 1 | EG |
| Q0703 | 2SB0709AW | TRANSISTOR | 1 | EG |
| | | | | |
| QR0702 | B1GBHBHH0002 | TRANSISTOR | 1 | EG |
| | | | | |
| R0701 | ERJ3GEY0R00V | 1/10W 0 | 1 | EB |
| R0702 | ERJ3GEYJ104 | 1/10W 100K | 1 | EB |
| R0703 | ERJ3GEYJ102V | 1/10W 1K | 1 | EB |
| R0704 | ERJ6GEYG105 | 1/8W 1M | 1 | EB |
| R0705 | ERJ6GEYJ392V | 1/8W 3.9K | 1 | EB |
| R0706 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 EG |
| R0707 | ERJ3GEYJ393V | 1/10W 39K | 1 | D0GB393JA002 EB |
| R0707 | ERJ6GEYJ223V | 1/8W 22K | 1 | EG |
| R0708 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 EB |
| R0708 | ERJ6GEYJ562V | 1/8W 5.6K | 1 | EG |
| R0709,10 | ERJ6GEYJ223V | 1/8W 22K | 2 | EG |
| R0711 | ERJ3GEYJ510 | 1/10W 51 | 1 | EB |
| R0711 | ERJ3GEYJ562V | 1/10W 5.6K | 1 | D0GB562JA002 EG |
| R0713 | ERJ3GEYJ181V | 1/10W 180 | 1 | EG |
| R0715 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 EB |
| R0717 | ERJ3GEYG562V | 1/10W 5.6K | 1 | EG |
| R0719 | ERJ3GEYJ472V | 1/10W 4.7K | 1 | EB |
| R0722 | ERJ3GEYJ562V | 1/10W 5.6K | 1 | D0GB562JA002 EG |
| R0724 | ERJ8GEYJ151V | 1/4W 150 | 1 | EG |
| R0725 | ERJ6GEYJ101V | 1/8W 100 | 1 | EB |
| R0726 | ERJ3GEYJ332V | 1/10W 3.3K | 1 | D0GB332JA002 EB |
| R0726 | MCR03PZHJ561 | 1/10W 560 | 1 | EG |
| R0727 | ERJ6GEYJ101V | 1/8W 100 | 1 | EG |
| R0728 | ERJ3GEY0R00V | 1/10W 0 | 1 | EB |
| R0729 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 EB |
| R0732 | ERJ8GEYJ102V | 1/4W 1K | 1 | EG |
| R0733 | ERJ3GEYG393V | 1/10W 39K | 1 | EG |
| R0734 | ERJ3GEYG682V | 1/10W 6.8K | 1 | EG |
| R0735 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 EG |
| R0737 | ERJ6GEYJ101V | 1/8W 100 | 1 | EG |
| R0738 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| R0740 | ERJ3GEYJ471V | 1/10W 470 | 1 | EB |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R0741 | ERJ3GEYJ221V | 1/10W 220 | 1 | EB |
| R0741 | ERJ6GEY0R00V | 1/8W 0 | 1 | EG |
| R0742 | ERJ6GEYJ471V | 1/8W 470 | 1 | EB |
| R0743 | ERJ6GEYJ820V | 1/8W 82 | 1 | EB |
| R0747,48 | ERJ3GEYJ271V | 1/10W 270 | 2 | EB |
| R0750 | ERJ6GEYG562 | 1/8W 5.6K | 1 | EG |
| R0755,56 | ERJ6GEYJ101V | 1/8W 100 | 2 | EG |
| R0757 | ERJ3GEYJ752V | 1/10W 7.5K | 1 | EG |
| | | | | |
| VR0701 | EVNCYAA03B14 | V.R. | 1 | |
| | | | | |
| W1 | ERJ6GEY0R00V | 1/8W 0 | 1 | EG |
| W1 | ERJ8GEY0R00V | 1/4W 0 | 1 | EB |
| W2 | ERJ6GEY0R00V | 1/8W 0 | 1 | EG |
| W2 | ERJ8GEY0R00V | 1/4W 0 | 1 | EB |
| W3 | ERJ3GEY0R00V | 1/10W 0 | 1 | EG |
| W3 | ERJ8GEY0R00V | 1/4W 0 | 1 | EB |
| W4 | ERJ3GEY0R00V | 1/10W 0 | 1 | EG |
| W4 | ERJ6GEY0R00V | 1/8W 0 | 1 | EB |
| W5,W6 | ERJ8GEY0R00V | 1/4W 0 | 2 | |
| W7 | ERJ6GEY0R00V | 1/8W 0 | 1 | EB |
| W7 | ERJ8GEY0R00V | 1/4W 0 | 1 | EG |
| W8 | ERJ3GEY0R00V | 1/10W 0 | 1 | EG |
| W8,W9 | ERJ6GEY0R00V | 1/8W 0 | 2 | EG |
| W9 | ERJ8GEY0R00V | 1/4W 0 | 1 | EB |
| W10 | ERJ3GEY0R00V | 1/10W 0 | 1 | EB |
| W10,11 | ERJ8GEY0R00V | 1/4W 0 | 2 | EG |
| W12 | ERJ3GEY0R00V | 1/10W 0 | 1 | EB |
| W12 | ERJ8GEY0R00V | 1/4W 0 | 1 | EG |
| W13 | ERJ6GEY0R00V | 1/8W 0 | 1 | EG |
| W13-15 | ERJ8GEY0R00V | 1/4W 0 | 3 | EG |
| W16 | ERJ6GEY0R00V | 1/8W 0 | 1 | EG |
| W16 | ERJ8GEY0R00V | 1/4W 0 | 1 | EB |
| W17 | ERJ6GEY0R00V | 1/8W 0 | 1 | EG |
| W18,19 | ERJ8GEY0R00V | 1/4W 0 | 2 | EG |
| | | | | |
| X0701 | VLF1417 | FILTER | 1 | J0B4155A0003 EB |
| X0704 | VLF1416 | FILTER | 1 | J0B4045A0002 EG |
| X0704 | VLF1495 | CRYSTAL OSCILLATOR | 1 | EB |
| X0706 | EFCKK9453D | FILTER | 1 | EG |
| X0707 | VLF1371 | FILTER | 1 | EFCKG3958M EG |
| | | | | |
| ■ | 04 | VEP07A51A | | (NICOM DECODER P.C.B.) |
| | | | | |
| C7301 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C7302 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| C7303 | ECEA0JKS101 | 6.3V 100U | 1 | |
| C7305 | ECEA0JKS101 | 6.3V 100U | 1 | |
| C7306 | ECJ1VF1H103Z | 50V 0.01U | 1 | |
| C7307,08 | ECJ1VC1H100C | 50V 10P | 2 | |
| C7309-11 | ECJ1VC1H101J | 50V 100P | 3 | |
| C7312,13 | ECEA1CKS100 | 16V 10U | 2 | |
| C7314 | ECJ1VF1C104Z | 16V 0.1U | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C7317 | ECEA1CKA470 | 16V 47U | 1 | |
| C7318 | ECEA1CKS100 | 16V 10U | 1 | |
| C7323 | ECJ1VC1H102J | 50V 1000P | 1 | |
| C7324 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C7329 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| C7330 | ERJ3GEYJ822V | 1/10W 8.2K | 1 | D0GB822JA002 |
| C7332 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C7333 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C7334 | ECEA1HKS2R2 | 50V 2.2U | 1 | |
| C7335 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| | | | | |
| IC7301 | TDA9874AH | IC | 1 | C1AB00001404 |
| IC7302 | PST7043-T | IC | 1 | C0EAH0000051 |
| | | | | |
| K7301-03 | ERJ3GEY0R00V | 1/10W 0 | 3 | |
| K7305 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| | | | | |
| L7303 | G0C1R0JA0019 | COIL | 1 | |
| | | | | |
| LB7301,02 | J0JCC0000124 | COIL | 2 | |
| LB7303 | J0JCC0000080 | COIL | 1 | |
| | | | | |
| PK7301 | VJR0777B007W | CONNECTOR(7P) | 1 | K1MM07B00002 |
| PK7302 | VJR0777B006W | CONNECTOR(6P) | 1 | K1MM06B00002 |
| | | | | |
| R7301 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| R7304 | ERJ3GEYJ101 | 1/10W 100 | 1 | D0GB101JA002 |
| R7307 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| R7309 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |
| R7311 | ERJ3GEYJ221V | 1/10W 220 | 1 | |
| R7312,13 | ERJ3RBD221 | 1/10W 220 | 2 | |
| R7314,15 | ERJ3GEY0R00V | 1/10W 0 | 2 | |
| R7317 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| R7319 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| R7322 | ERJ3GEY0R00V | 1/10W 0 | 1 | |
| R7324,25 | ERJ3GEYJ101 | 1/10W 100 | 2 | D0GB101JA002 |
| | | | | |
| W6,W7 | ERJ3GEY0R00V | 1/10W 0 | 2 | |
| | | | | |
| X7301 | H0D245500016 | CRYSTAL OSCILLATOR | 1 | |
| | | | | |
| ■ | 05 | REP3682A | | (SCART P.C.B.) |
| | | | | |
| C3909 | ECEA0JKS470 | 6.3V 47U | 1 | |
| C3910,11 | ECA1CAK100XB | 16V 10U | 2 | |
| C3914-17 | ECA1HAK010XI | 50V 1U | 4 | |
| C3918,19 | ECA1CAK100XB | 16V 10U | 2 | |
| C3920 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C3921 | ECA0JAK331X | 6.3V 330U | 1 | |
| C3922 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C3923 | ECJ1XB1C104K | 16V 0.1U | 1 | ECJ1VB1C104K |
| C3924 | ECA0JAK331X | 6.3V 330U | 1 | |
| C3925 | ECJ1VB1H103K | 50V 0.01U | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C3928,29 | ECA1HAK010XI | 50V 1U | 2 | |
| C3930 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C3931,32 | ECA1HAK010XI | 50V 1U | 2 | |
| C3933 | ECA1CAK101XB | 16V 100U | 1 | |
| C3934 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C3935 | ECA1CAK101XB | 16V 100U | 1 | |
| C3938 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| C3939 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| C3951,52 | ECJ1VC1H470J | 50V 47P | 2 | |
| C3953,54 | ECJ1VC1H471J | 50V 470P | 2 | |
| C3955,56 | ECJ1VC1H101J | 50V 100P | 2 | |
| C3957,58 | ECJ1VC1H471J | 50V 470P | 2 | |
| C3959,60 | ECJ1VC1H470J | 50V 47P | 2 | |
| C3961,62 | ECJ1VC1H101J | 50V 100P | 2 | |
| | | | | |
| D3901 | MA165TA5 | DIODE | 1 | MA2C16500E |
| D3903 | MA3Z142D0RG | DIODE | 1 | |
| | | | | |
| IC3901 | C1AB00001776 | IC | 1 | |
| | | | | |
| JK3901 | K2HA306A0025 | JACK,VIDEO OUT | 1 | |
| JK3904 | K1FB121A0003 | JACK,AV2 | 1 | |
| JK3905 | K1FB121A0003 | JACK,AV1 | 1 | |
| | | | | |
| LB3907,08 | J0JGC0000020 | COIL | 2 | |
| LB3911-13 | J0JGC0000020 | COIL | 3 | |
| LB3922,23 | J0JGC0000020 | COIL | 2 | |
| LB3925 | J0JGC0000020 | COIL | 1 | |
| | | | | |
| PS3901 | VJS3042F020W | CONNECTOR(20P) | 1 | K1KB20B00027 |
| PS3902 | VJS3042F018W | CONNECTOR(18P) | 1 | K1KB18B00012 |
| PS3903 | K1KB15B00013 | CONNECTOR(15P) | 1 | |
| | | | | |
| Q3901 | 2SD1819AWL | TRANSISTOR | 1 | |
| Q3905 | 2SD132800L | TRANSISTOR | 1 | |
| Q3906 | 2SB710AQRSTX | TRANSISTOR | 1 | 2SB0710AWL |
| Q3908 | 2SB1218A | TRANSISTOR | 1 | |
| Q3909,10 | 2SD132800L | TRANSISTOR | 2 | |
| | | | | |
| QR3908 | UN5212TX | TRANSISTOR | 1 | UNR521200L |
| QR3909 | UN5211 | TRANSISTOR | 1 | UNR5211 |
| QR3913 | UN5212TX | TRANSISTOR | 1 | UNR521200L |
| | | | | |
| R3901-03 | ERJ3RED750V | 1/16W 75 | 3 | |
| R3904 | ERJ3GEYJ330V | 1/10W 33 | 1 | D0GB330JA002 |
| R3905 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R3906 | ERJ3GEYJ102V | 1/10W 1K | 1 | |
| R3907 | ERJ3GEYJ273V | 1/10W 27K | 1 | D0GB273JA002 |
| R3908,09 | ERJ6GEYJ471V | 1/8W 470 | 2 | |
| R3910 | ERJ3RBD151 | 1/16W 150 | 1 | |
| R3911,12 | ERJ3GEYJ222V | 1/10W 2.2K | 2 | D0GB222JA002 |
| R3913 | ERJ3EKF1800 | 1/16W 180 | 1 | |
| R3914 | ERJ3RBD151 | 1/16W 150 | 1 | |
| R3915 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R3916 | ERJ3GEYD153V | 1/10W 15K | 1 | D0HB153ZA002 |
| R3917 | ERJ3GEYJ223V | 1/10W 22K | 1 | D0GB223JA002 |
| R3919 | ERJ3RBD151 | 1/16W 150 | 1 | |
| R3921 | ERJ6ENF75R0 | 1/8W 75 | 1 | |
| R3922,23 | ERJ6GEYJ471V | 1/8W 470 | 2 | |
| R3924 | ERDS2FJ471 | 1/4W 470 | 1 | |
| R3925-28 | ERJ6ENF75R0 | 1/8W 75 | 4 | |
| R3929,30 | ERJ6GEYJ471V | 1/8W 470 | 2 | |
| R3931-33 | ERJ3RED750V | 1/16W 75 | 3 | |
| R3934,35 | ERJ6ENF75R0 | 1/8W 75 | 2 | |
| R3962 | ERJ3GEYJ103V | 1/10W 10K | 1 | D0GB103JA002 |
| R3967 | ERJ3GEYJ152V | 1/10W 1.5K | 1 | |
| R3968 | ERJ3GEYJ680 | 1/10W 68 | 1 | ERJ3GEYJ680V |
| R3969 | ERJ3GEYJ332V | 1/10W 3.3K | 1 | D0GB332JA002 |
| R3972,73 | ERJ3GEYJ103V | 1/10W 10K | 2 | D0GB103JA002 |
| R3975,76 | ERJ3GEYJ101 | 1/10W 100 | 2 | D0GB101JA002 |
| R3977,78 | ERJ3GEYJ103V | 1/10W 10K | 2 | D0GB103JA002 |
| R3979,80 | ERJ6GEYJ471V | 1/8W 470 | 2 | |
| R3981,82 | ERJ3GEYJ821V | 1/10W 820 | 2 | |
| R3983,84 | ERJ3GEYJ104 | 1/10W 100K | 2 | |
| R3985 | ERJ3RBD472V | 1/16W 4.7K | 1 | |
| R3986 | ERJ3RBD122V | 1/16W 1.2K | 1 | |
| R3987 | ERJ3GEYJ473V | 1/10W 47K | 1 | D0GB473JA002 |
| R3988,89 | ERJ3GEYJ102V | 1/10W 1K | 2 | |
| R3990,91 | ERJ3GEYJ473V | 1/10W 47K | 2 | D0GB473JA002 |
| R3992,93 | ERJ3GEYJ102V | 1/10W 1K | 2 | |
| R3994 | ERJ3GEYJ473V | 1/10W 47K | 1 | D0GB473JA002 |
| | | | | |
| ZA3901-04 | VMC1450 | EARTH PLATE | 4 | |
| | | | | |
| ■ | 06 | REP3712H/RFKBE85HEB | | (DIGITAL P.C.B.) |
| | | | | |
| C3401 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C3402 | ECJ0EC1H220J | 50V 22P | 1 | |
| C3403 | ECJ0EB1A104K | 10V 0.1U | 1 | |
| C3404,05 | ECJ0EC1H220J | 50V 22P | 2 | |
| C3406 | ECJ0EB1A104K | 10V 0.1U | 1 | |
| C3407,08 | ECJ0EC1H100D | 50V 10P | 2 | |
| C3410 | ECJ0EB1C103K | 16V 0.01U | 1 | |
| C3411 | ECST0JX476R | 6.3V 47U | 1 | |
| C3413 | ECJ0EB1A104K | 10V 0.1U | 1 | |
| C3417-19 | ECJ1VB0J105K | 6.3V 1U | 3 | |
| C3420 | ECJ0EB1C103K | 16V 0.01U | 1 | |
| C3421 | ECJ0EB1A104K | 10V 0.1U | 1 | |
| C3422 | ECJ0EB1C103K | 16V 0.01U | 1 | |
| C3423-28 | ECJ0EB1A104K | 10V 0.1U | 6 | |
| C3429,30 | ECJ2FB0J106K | 6.3V 10U | 2 | F1J0J106A013 |
| C3431 | ECJ0EB1A104K | 10V 0.1U | 1 | |
| C3432 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C3433 | ECJ0EB1A104K | 10V 0.1U | 1 | |
| C3435,36 | ECJ0EB1A104K | 10V 0.1U | 2 | |
| C3440 | EEEHB0J101P | 6.3V 100P | 1 | |
| C3441 | ECJ0EB1A104K | 10V 0.1U | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| C3502 | ECJ0EB1C103K | 16V 0.01U | 1 | |
| C4411 | ECST1AY106R | 10V 10U | 1 | |
| C4412 | EEEHB0J470R | 6.3V 47P | 1 | |
| C4413 | EEEHB0J101P | 6.3V 100P | 1 | |
| C4414,15 | ECJ0EF1C104Z | 16V 0.1U | 2 | |
| C4416 | F2H0J331A016 | 6.3V 330U | 1 | |
| C4417 | ECJ0EF1C104Z | 16V 0.1U | 1 | |
| C4418 | EEEHB0J101P | 6.3V 100P | 1 | |
| C4421-26 | ECJ0EB1E102K | 25V 1000P | 6 | |
| C4427 | EEEHB0J470R | 6.3V 47P | 1 | |
| C4428 | ECJ0EF1C104Z | 16V 0.1U | 1 | |
| C4429 | ECJ0EB1A104K | 10V 0.1U | 1 | |
| C4430 | ECST1AY106R | 10V 10U | 1 | |
| C4431,32 | ECJ0EF1C104Z | 16V 0.1U | 2 | |
| C4433 | EEEHB1C100R | 16V 10P | 1 | |
| C4434 | ECJ0EF1C104Z | 16V 0.1U | 1 | |
| C6001 | ECJ0EF1C104Z | 16V 0.1U | 1 | |
| C6002 | ECJ2FB0J106K | 6.3V 10U | 1 | F1J0J106A013 |
| C6003 | ECJ0EB1C103K | 16V 0.01U | 1 | |
| C9001,02 | ECJ0EC1H470J | 50V 47P | 2 | |
| C50001 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| C50002 | F1K0J226A004 | 6.3V 22U | 1 | |
| C50004,05 | ECJ0EB1A104K | 10V 0.1U | 2 | |
| | | | | |
| D3401,02 | MA3S132E0L | DIODE | 2 | |
| D4401 | MA3Z142K0LG | DIODE | 1 | |
| | | | | |
| FL3401,02 | F1H0J4740004 | FILTER | 2 | |
| FL3404 | F1H0J4740004 | FILTER | 1 | |
| FL3406,07 | F1H0J4740004 | FILTER | 2 | |
| FL3409-12 | F1H0J4740004 | FILTER | 4 | |
| FL3414-26 | F1H0J4740004 | FILTER | 13 | |
| FL3429 | F1H0J4740004 | FILTER | 1 | |
| FL3431 | F1H0J4740004 | FILTER | 1 | |
| FL3433-35 | F1H0J4740004 | FILTER | 3 | |
| FL3501,02 | F1H0J4740004 | FILTER | 2 | |
| FL3505-16 | F1H0J4740004 | FILTER | 12 | |
| FL4403-05 | F1H0J4740004 | FILTER | 3 | |
| FL6001-18 | F1H0J4740004 | FILTER | 18 | |
| FL6020-23 | F1H0J4740004 | FILTER | 4 | |
| FL6701-03 | F1H0J4740004 | FILTER | 3 | |
| FL50001-06 | F1H0J4740004 | FILTER | 6 | |
| | | | | |
| FP3501 | K1MN40A00022 | CONNECTOR(40P) | 1 | |
| | | | | |
| IC3401 | AN13310B-VB | IC | 1 | |
| IC3402 | C3ABMG000092 | IC | 1 | |
| IC3404 | MN85573R | IC | 1 | |
| IC3406 | C1DB00001110 | IC | 1 | |
| IC3408 | C3ABPJ000048 | IC | 1 | |
| IC3409 | C0DBZGC00066 | IC | 1 | |
| IC3501 | MN88302R | IC | 1 | |
| IC3502 | C3ABRG000036 | IC | 1 | |
| IC4404 | C0FBBK000035 | IC | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| IC4405 | C0ABBB000105 | IC | 1 | |
| IC4406 | C0FBAK000008 | IC | 1 | |
| IC4407 | C0JBAA000257 | IC | 1 | |
| IC4408 | C0JBAD000107 | IC | 1 | |
| IC4409 | C0CBCBD00002 | IC | 1 | |
| IC6001 | MN2DS0011-HR | IC | 1 | |
| IC6002 | C0EBE0000130 | IC | 1 | |
| IC6003 | C3CBLD000091 | IC | 1 | |
| IC6004 | 74LVC244APWL | IC | 1 | C0JBAZ001466 |
| IC6005,06 | C3ABRG000036 | IC | 2 | |
| IC6701 | C1ZBZ0002433 | IC | 1 | |
| IC6703 | REP3712H | DIGITAL P.C.B. | 1 | EG |
| IC6703 | RFKBE85HEB | DIGITAL P.C.B. | 1 | EB |
| IC50001,02 | C3ABPG000133 | IC | 2 | |
| | | | | |
| LB3404,05 | J0JHC0000032 | COIL | 2 | |
| LB3408,09 | J0JHC0000032 | COIL | 2 | |
| LB4401-04 | J0JGC0000020 | COIL | 4 | |
| LB4405 | J0JHC0000032 | COIL | 1 | |
| LB6001-04 | J0JHC0000032 | COIL | 4 | |
| LB9001,02 | J0JHC0000032 | COIL | 2 | |
| LB9006,07 | J0JCC0000103 | COIL | 2 | |
| LB9008 | J0JHC0000045 | COIL | 1 | |
| LB9009 | J0JHC0000046 | COIL | 1 | |
| LB50001-05 | J0JHC0000032 | COIL | 5 | |
| | | | | |
| P6002 | K1KA06A00394 | CONNECTOR(6P) | 1 | |
| P9001 | K1KB88A00002 | CONNECTOR(88P) | 1 | |
| | | | | |
| Q6001,02 | B1ABCF000114 | TRANSISTOR | 2 | |
| Q6701-05 | B1ABCF000114 | TRANSISTOR | 5 | |
| Q50001-05 | B1ADCF000081 | TRANSISTOR | 5 | |
| | | | | |
| QR3502,03 | UN5213TX | TRANSISTOR | 2 | UNR521300L |
| | | | | |
| R3405 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R3407 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R3409 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R3410,11 | ERJ2GEJ101 | 1/16W 100 | 2 | |
| R3412 | ERJ2GEJ220X | 1/16W 22 | 1 | ERJ2RMJ220X |
| R3414 | ERJ2GEJ330X | 1/16W 33 | 1 | |
| R3416 | ERJ2GEJ472X | 1/16W 4.7K | 1 | ERJ2RMJ472X |
| R3417,18 | ERJ2GEJ103 | 1/16W 10K | 2 | |
| R3419-23 | ERJ2GEJ220X | 1/16W 22 | 5 | ERJ2RMJ220X |
| R3427 | ERJ2GEJ220X | 1/16W 22 | 1 | ERJ2RMJ220X |
| R3430 | ERJ2GEJ220X | 1/16W 22 | 1 | ERJ2RMJ220X |
| R3432-34 | ERJ2GEJ220X | 1/16W 22 | 3 | ERJ2RMJ220X |
| R3436 | ERJ2GEJ470 | 1/16W 47 | 1 | |
| R3438 | ERJ2GEJ220X | 1/16W 22 | 1 | ERJ2RMJ220X |
| R3440 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R3442 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R3443-45 | ERJ2GE0R00X | 1/16W 0 | 3 | |
| R3447 | ERJ2RHD682 | 1/16W 6.8K | 1 | |
| R3448 | ERJ2GEJ562X | 1/16W 5.6K | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R3449 | ERJ2RHD682 | 1/16W 6.8K | 1 | |
| R3450 | ERJ2GEJ104 | 1/16W 100K | 1 | |
| R3451 | ERJ2GEJ220X | 1/16W 22 | 1 | ERJ2RMJ220X |
| R3452 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R3453 | ERJ2GEJ220X | 1/16W 22 | 1 | ERJ2RMJ220X |
| R3454 | ERJ2GEJ390X | 1/16W 39 | 1 | ERJ2RMJ390X |
| R3455 | ERJ2GEJ220X | 1/16W 22 | 1 | ERJ2RMJ220X |
| R3456 | ERJ2GEJ470 | 1/16W 47 | 1 | |
| R3457 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R3458 | ERJ2GEJ220X | 1/16W 22 | 1 | ERJ2RMJ220X |
| R3460-62 | ERJ2GEJ470 | 1/16W 47 | 3 | |
| R3463,64 | ERJ2GE0R00X | 1/16W 0 | 2 | |
| R3472,73 | ERJ2GEJ220X | 1/16W 22 | 2 | ERJ2RMJ220X |
| R3476 | ERJ2GEJ102X | 1/16W 1K | 1 | ERJ2RMJ102X |
| R3501-03 | ERJ2GEJ220X | 1/16W 22 | 3 | ERJ2RMJ220X |
| R3509 | ERJ2GEJ330X | 1/16W 33 | 1 | |
| R3510,11 | ERJ2GEJ103 | 1/16W 10K | 2 | |
| R3514 | ERJ2GEJ105 | 1/16W 1M | 1 | |
| R3519-22 | ERJ2GEJ330X | 1/16W 33 | 4 | |
| R3523 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R3524 | ERJ2GEJ330X | 1/16W 33 | 1 | |
| R3525 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R3526-28 | ERJ2GEJ220X | 1/16W 22 | 3 | ERJ2RMJ220X |
| R3530 | ERJ2GEJ102X | 1/16W 1K | 1 | ERJ2RMJ102X |
| R3531 | ERJ2GEJ820X | 1/16W 82 | 1 | |
| R3532 | ERJ2GEJ472X | 1/16W 4.7K | 1 | ERJ2RMJ472X |
| R3533 | ERJ2GEJ101 | 1/16W 100 | 1 | |
| R3535 | ERJ2GEJ820X | 1/16W 82 | 1 | |
| R3537 | ERJ2GEJ562X | 1/16W 5.6K | 1 | |
| R3541,42 | ERJ2GEJ103 | 1/16W 10K | 2 | |
| R3543 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R3548 | ERJ2GEJ330X | 1/16W 33 | 1 | |
| R4418-27 | ERJ2GE0R00X | 1/16W 0 | 10 | |
| R4429 | JAR0816P562D | 1/16W 5.6K | 1 | D0HB562ZA002 |
| R4430,31 | JAR0816P103D | 1/16W 10K | 2 | D0HB103ZA002 |
| R4432 | JAR0816P562D | 1/16W 5.6K | 1 | D0HB562ZA002 |
| R4434,35 | ERJ3GEY0R00V | 1/10W 0 | 2 | |
| R4436 | ERJ2GEJ221 | 1/16W 220 | 1 | |
| R4437-39 | ERJ2GE0R00X | 1/16W 0 | 3 | |
| R4450-52 | ERJ2GE0R00X | 1/16W 0 | 3 | |
| R4453 | ERJ2GEJ562X | 1/16W 5.6K | 1 | |
| R4454-57 | ERJ2GE0R00X | 1/16W 0 | 4 | |
| R6001 | ERJ2GEJ333X | 1/16W 33K | 1 | ERJ2RMJ333X |
| R6002 | ERJ2GEJ332X | 1/16W 3.3K | 1 | ERJ2RMJ332X |
| R6003 | ERJ2GEJ102X | 1/16W 1K | 1 | ERJ2RMJ102X |
| R6004 | ERJ2GEJ472X | 1/16W 4.7K | 1 | ERJ2RMJ472X |
| R6005 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6006 | ERJ2GEJ153 | 1/16W 15K | 1 | |
| R6007 | ERJ2GEJ472X | 1/16W 4.7K | 1 | ERJ2RMJ472X |
| R6008 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6009,10 | ERJ2GEJ330X | 1/16W 33 | 2 | |
| R6011 | ERJ2GEJ332X | 1/16W 3.3K | 1 | ERJ2RMJ332X |
| R6013 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6014-17 | ERJ2GEJ104 | 1/16W 100K | 4 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R6018,19 | ERJ2GEJ220X | 1/16W 22 | 2 | ERJ2RMJ220X |
| R6020 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R6021,22 | ERJ2GEJ470 | 1/16W 47 | 2 | |
| R6023 | ERJ2GEJ332X | 1/16W 3.3K | 1 | ERJ2RMJ332X |
| R6024 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6027 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R6028 | ERJ2GEJ470 | 1/16W 47 | 1 | |
| R6029 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6031 | ERJ2GEJ470 | 1/16W 47 | 1 | |
| R6035 | ERJ2GEJ470 | 1/16W 47 | 1 | |
| R6036 | ERJ2GEJ332X | 1/16W 3.3K | 1 | ERJ2RMJ332X |
| R6037 | ERJ2GEJ333X | 1/16W 33K | 1 | ERJ2RMJ333X |
| R6039 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6040 | ERJ2GEJ332X | 1/16W 3.3K | 1 | ERJ2RMJ332X |
| R6701 | ERJ2GEJ104 | 1/16W 100K | 1 | |
| R6703 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6706,07 | ERJ2GEJ470 | 1/16W 47 | 2 | |
| R6709,10 | ERJ2GEJ332X | 1/16W 3.3K | 2 | ERJ2RMJ332X |
| R6711,12 | ERJ2GEJ470 | 1/16W 47 | 2 | |
| R6713 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6714 | ERJ2GEJ333X | 1/16W 33K | 1 | ERJ2RMJ333X |
| R6715 | ERJ2GEJ470 | 1/16W 47 | 1 | |
| R6716,17 | ERJ2GEJ333X | 1/16W 33K | 2 | ERJ2RMJ333X |
| R6718 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R6720-28 | ERJ2GEJ470 | 1/16W 47 | 9 | |
| R6729 | ERJ2GEJ104 | 1/16W 100K | 1 | |
| R6730 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6731 | ERJ2GEJ222X | 1/16W 22K | 1 | ERJ2RMJ222X |
| R6733 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R6735 | ERJ2GEJ472X | 1/16W 4.7K | 1 | ERJ2RMJ472X |
| R6737,38 | ERJ2GEJ470 | 1/16W 47 | 2 | |
| R6739 | ERJ2GEJ102X | 1/16W 1K | 1 | ERJ2RMJ102X |
| R6750,51 | ERJ2GEJ470 | 1/16W 47 | 2 | |
| R6752 | ERJ2GEJ101 | 1/16W 100 | 1 | |
| R6753-56 | ERJ2GEJ470 | 1/16W 47 | 4 | |
| R50001 | ERJ2GEJ390X | 1/16W 39 | 1 | ERJ2RMJ390X |
| R50002 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R50003 | ERJ2GEJ390X | 1/16W 39 | 1 | ERJ2RMJ390X |
| R50004 | ERJ2GE0R00X | 1/16W 0 | 1 | |
| R50005 | ERJ2GEJ330X | 1/16W 33 | 1 | |
| R50006,07 | ERJ2GEJ470 | 1/16W 47 | 2 | |
| R50008 | ERJ2GEJ100 | 1/16W 10 | 1 | |
| R50009 | ERJ2GEJ103 | 1/16W 10K | 1 | |
| R50010 | ERJ2RHD242 | 1/16W 2.4K | 1 | |
| R50011 | ERJ2RHD223X | 1/16W 22K | 1 | |
| R50012,13 | ERJ2GE0R00X | 1/16W 0 | 2 | |
| R50015 | ERJ2RHD333 | 1/16W 33K | 1 | |
| R50016 | ERJ2RHD152 | 1/16W 1.5K | 1 | |
| R50017 | ERJ2RHD153 | 1/16W 15K | 1 | |
| R50018 | ERJ3RBD151 | 1/16W 150 | 1 | |
| R50019 | ERJ2GEJ330X | 1/16W 33 | 1 | |
| R50020 | ERJ2GEJ102X | 1/16W 1K | 1 | ERJ2RMJ102X |
| R50021 | ERJ3RED820 | 1/16W 82 | 1 | |
| R50022 | ERJ2GEJ330X | 1/16W 33 | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R50023 | ERJ2GEJ102X | 1/16W 1K | 1 | ERJ2RMJ102X |
| R50024 | ERJ3RED820 | 1/16W 82 | 1 | |
| R50025 | ERJ2GEJ330X | 1/16W 33 | 1 | |
| R50026 | ERJ2GEJ102X | 1/16W 1K | 1 | ERJ2RMJ102X |
| R50027 | ERJ3RBD151 | 1/16W 150 | 1 | |
| R50028 | ERJ2GEJ330X | 1/16W 33 | 1 | |
| R50029 | ERJ2GEJ102X | 1/16W 1K | 1 | ERJ2RMJ102X |
| R50030 | ERJ3RED220 | 1/16W 22 | 1 | |
| R50031 | ERJ3RBD151 | 1/16W 150 | 1 | |
| R50032 | ERJ2GEJ330X | 1/16W 33 | 1 | |
| R50033 | ERJ2GEJ102X | 1/16W 1K | 1 | ERJ2RMJ102X |
| R50034,35 | ERJ3RED160V | 1/16W 16 | 2 | |
| R50036-38 | ERJ2GEJ470 | 1/16W 47 | 3 | |
| R50039 | ERJ2GEJ820X | 1/16W 82 | 1 | |
| | | | | |
| RX3401-17 | D1H82204A024 | RESISTOR-RESISTOR | 17 | |
| RX3421,22 | D1H82204A024 | RESISTOR-RESISTOR | 2 | |
| RX3433-44 | D1H82204A024 | RESISTOR-RESISTOR | 12 | |
| RX3501-04 | D1H82204A024 | RESISTOR-RESISTOR | 4 | |
| RX3505-08 | D1H83304A024 | RESISTOR-RESISTOR | 4 | |
| RX3515-19 | D1H83304A024 | RESISTOR-RESISTOR | 5 | |
| RX3520-26 | D1H82204A024 | RESISTOR-RESISTOR | 7 | |
| RX3527-32 | D1H81034A024 | RESISTOR-RESISTOR | 6 | |
| RX3538-40 | D1H84734A024 | RESISTOR-RESISTOR | 3 | |
| RX6001 | D1H81034A024 | RESISTOR-RESISTOR | 1 | |
| RX6002-04 | D1H84704A024 | RESISTOR-RESISTOR | 3 | |
| RX6005,06 | D1H83304A024 | RESISTOR-RESISTOR | 2 | |
| RX6007 | D1H84704A024 | RESISTOR-RESISTOR | 1 | |
| RX6009-26 | D1H83304A024 | RESISTOR-RESISTOR | 18 | |
| RX6027-32 | D1H84704A024 | RESISTOR-RESISTOR | 6 | |
| RX6033,34 | D1H83324A013 | RESISTOR-RESISTOR | 2 | |
| RX6035,36 | D1H83334A024 | RESISTOR-RESISTOR | 2 | |
| RX6037 | D1H81034A024 | RESISTOR-RESISTOR | 1 | |
| RX6038 | D1H83304A024 | RESISTOR-RESISTOR | 1 | |
| RX6039-42 | D1H84704A024 | RESISTOR-RESISTOR | 4 | |
| RX6043 | D1H81034A024 | RESISTOR-RESISTOR | 1 | |
| RX6044 | D1H83334A024 | RESISTOR-RESISTOR | 1 | |
| RX6701,02 | D1H81034A024 | RESISTOR-RESISTOR | 2 | |
| RX6703-06 | D1H84704A024 | RESISTOR-RESISTOR | 4 | |
| RX6708 | D1H84704A024 | RESISTOR-RESISTOR | 1 | |
| RX6711-13 | D1H83324A013 | RESISTOR-RESISTOR | 3 | |
| RX6716 | D1H84704A024 | RESISTOR-RESISTOR | 1 | |
| RX6717-19 | D1H83334A024 | RESISTOR-RESISTOR | 3 | |
| RX6720-23 | D1H83324A013 | RESISTOR-RESISTOR | 4 | |
| RX6724 | D1H84704A024 | RESISTOR-RESISTOR | 1 | |
| RX6726-28 | D1H84704A024 | RESISTOR-RESISTOR | 3 | |
| RX6729,30 | D1H81034A024 | RESISTOR-RESISTOR | 2 | |
| RX6731-34 | D1H84704A024 | RESISTOR-RESISTOR | 4 | |
| RX6735 | D1H82224A024 | RESISTOR-RESISTOR | 1 | |
| RX6736 | D1H81034A024 | RESISTOR-RESISTOR | 1 | |
| RX6737 | D1H84724A024 | RESISTOR-RESISTOR | 1 | |
| RX6738 | D1H83334A024 | RESISTOR-RESISTOR | 1 | |
| RX50001-16 | D1H84704A024 | RESISTOR-RESISTOR | 16 | |
| | | | | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| X3401 | H0J270500069 | CRYSTAL OSCILLATOR | 1 | |
| X3501 | H2D330500001 | CRYSTAL OSCILLATOR | 1 | |
| | | | | |
| ■ | 07 | ETXMM507E4F | | (POWER SUPPLY P.C.B.) |
| | | | | |
| C001 | ECKENA102ME | 1000P | 1 | ⚠ |
| C002 | ECQU2A104ML | 0.1U | 1 | ⚠ |
| C003 | ECQU2A334ML | 0.33 | 1 | ⚠ |
| C006 | ECKENA102ME | 1000P | 1 | ⚠ |
| C008 | KH102M | 1000P | 1 | ⚠ |
| C009 | KMM2W470JZ | 450V 47 | 1 | |
| C010 | RR3DD331K | 2KV 330P | 1 | |
| C011 | ECKENA102ME | 1000P | 1 | ⚠ |
| C012 | MBC471J5 | 50V 470P | 1 | |
| C013 | KY1H220 | 50V 22 | 1 | |
| C014 | MBB224K2 | 25V 0.22 | 1 | |
| C015 | MBB224K5 | 25V 0.22 | 1 | |
| C101 | KBR221K2E | 250V 220P | 1 | |
| C102 | ECJ2XB1H102K | 50V 1000P | 1 | ECJ2VB1H102K |
| C103 | KBR221K2E | 250V 220P | 1 | |
| C104 | ECJ2XB1H102K | 50V 1000P | 1 | ECJ2VB1H102K |
| C105 | KY1E471 | 25V 470 | 1 | |
| C106 | KY1A222 | 10V 2200 | 1 | |
| C107 | MBC102J5 | 50V 1000P | 1 | |
| C109 | MBB104K2 | 25V 0.1U | 1 | |
| C110 | MBB683K5 | 55V 0.068 | 1 | |
| C111 | MBB105K1 | 16V 1U | 1 | |
| C112 | KY1A471 | 10V 470U | 1 | |
| C113 | MBB105K1 | 16V 1U | 1 | |
| C115 | MBB224K5 | 25V 0.22 | 1 | |
| C117 | KY1E221 | 25V 220U | 1 | |
| C118 | KMG1H100 | 50V 10 | 1 | |
| C119 | ECA1AHG102 | 10V 1000U | 1 | |
| C120 | KY1E681L | 25V 680 | 1 | |
| C122 | MBB104K2 | 25V 0.1U | 1 | |
| C123 | KY1C471 | 16V 470 | | |
| C124 | KY1E221 | 25V 220U | 1 | |
| C125 | ECA1AHG102 | 10V 1000U | 1 | |
| C127 | ECJ2XB1H333K | 50V 0.033U | 1 | |
| C128 | KY1A471 | 10V 470U | 1 | |
| C129 | MBB105K1 | 16V 1U | 1 | |
| C130 | MBC102J5 | 50V 1000P | 1 | |
| C131 | MBB105K1 | 16V 1U | 1 | |
| C141 | MBB104K2 | 25V 0.1U | 1 | |
| C142 | MBB105K1 | 16V 1U | 1 | |
| | | | | |
| D001-04 | GPP20J | DIODE | 4 | ⚠ |
| D005 | ST3D200 | CLAMPER | 1 | |
| D006 | AL01Z | DIODE | 1 | B0HAMM000077 |
| D007 | MA2J72800L | DIODE | 1 | MA2J728 |
| D101 | RK49 | DIODE | 1 | B0JAPK000005 |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| D102 | FCQ20A6 | DIODE | 1 | |
| D103 | BRF1560 | DIODE | 1 | |
| D104-07 | MA165TA5 | DIODE | 4 | MA2C16500E |
| D108 | FCH05A10 | DIODE | 1 | |
| D111-13 | MA165TA5 | DIODE | 3 | MA2C16500E |
| D114 | GPP20J | DIODE | 1 | |
| D120 | MA2J11100L | DIODE | 1 | |
| | | | | |
| F001 | 19181-2A | FUSE | 1 | ⚠ |
| F101 | SBM40 | FUSE | 1 | ⚠ |
| F102 | SBM32 | FUSE | 1 | ⚠ |
| F103 | SBM25 | FUSE | 1 | ⚠ |
| | | | | |
| IC001 | STRG6353 | IC | 1 | ⚠ |
| IC101 | TL431AI | IC | 1 | |
| IC102 | LM2904DR | IC | 1 | |
| IC105 | BD4746G | IC | 1 | |
| IC106 | SI3120J | IC | 1 | |
| | | | | |
| IP101 | ICPN10 | IC PROTECTOR | 1 | ⚠ |
| | | | | |
| L002 | ELF15N005A | COIL | 1 | ⚠ |
| L004 | ELESN150KA | COIL | 1 | |
| L005 | EXCELSA35 | COIL | 1 | |
| L010,11 | EXCELSA35 | COIL | 2 | |
| L101 | EXCELDR35 | COIL | 1 | |
| L102 | LHLZ1R5M | COIL | 1 | |
| L103 | EXCELDR35 | COIL | 1 | |
| L104 | LHLZ6R8M | COIL | 1 | |
| L105 | EXCELSA35 | COIL | 1 | |
| L106 | LH8TB100K | COIL | 1 | |
| L107 | EXCELSA35 | COIL | 1 | |
| L108 | EXCELDR35 | COIL | 1 | |
| L109 | LHLZ4R7M | COIL | 1 | |
| | | | | |
| P001 | M2023 | AC INLET | 1 | ⚠ |
| | | | | |
| PC001 | PS2571L1 | PHOTO COUPLER | 1 | ⚠ |
| | | | | |
| PS101 | B4B-EH-A | CONNECTOR(4P) | 1 | |
| PS102 | TWGP23XA1 | CONNECTOR(23P) | 1 | |
| | | | | |
| Q101 | 2SD602A-R | TRANSISTOR | 1 | 2SD0602AR |
| Q102 | 2SB710AQRSTX | TRANSISTOR | 1 | 2SB0710AWL |
| Q103 | 2SB0709ARL | TRANSISTOR | 1 | |
| Q104 | 2SD601A-R | TRANSISTOR | 1 | 2SD0601AR |
| Q105 | 2SK3366 | TRANSISTOR | 1 | |
| Q106,07 | 2SD601A-R | TRANSISTOR | 2 | 2SD0601AR |
| Q110 | 2SB710AQRSTX | TRANSISTOR | 1 | 2SB0710AWL |
| Q111 | 2SD601A-R | TRANSISTOR | 1 | 2SD0601AR |
| Q113 | 2SK3366 | TRANSISTOR | 1 | |

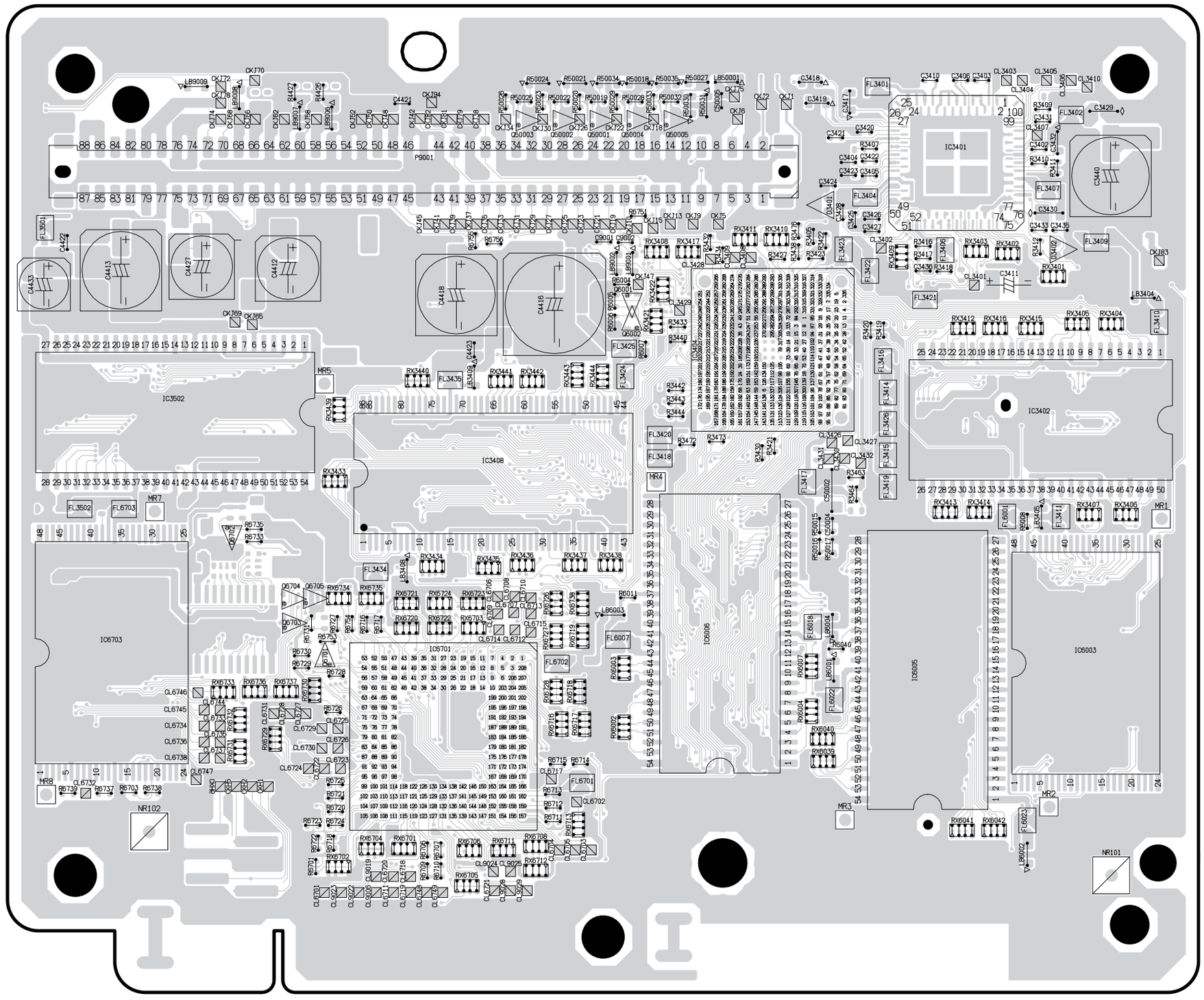
| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| Q114 | 2SB710AQRSTX | TRANSISTOR | 1 | 2SB0710AWL |
| Q115,16 | 2SD601A-R | TRANSISTOR | 2 | 2SD0601AR |
| Q117 | 2SB0709ARL | TRANSISTOR | 1 | |
| Q118 | 2SD602A-R | TRANSISTOR | 1 | 2SD0602AR |
| Q119 | 2SB710AQRSTX | TRANSISTOR | 1 | 2SB0710AWL |
| | | | | |
| R001 | ERDS1FJ105 | 0.5W 1M | 1 | |
| R002 | CR10J681 | 0.1W 680 | 1 | |
| R003 | ERX1SZGR47 | 1W 0.47 | 1 | |
| R005 | ERDS2FJ224 | 1/4W 220K | 1 | |
| R006 | ER0S2TKF2373 | 0.25W 237K | 1 | |
| R007 | CR10F1272 | 0.1W 12.7K | 1 | |
| R008 | CR10J562 | 0.1W 5.6K | 1 | |
| R009 | ERDS2FJ224 | 1/4W 220K | 1 | |
| R010 | ER0S2TKF2373 | 0.25W 237K | 1 | |
| R101 | CR10J472 | 0.1W 4.7K | 1 | |
| R102,03 | CR10J100 | 0.1W 10 | 2 | |
| R104 | CR10J471 | 0.1W 470 | 1 | |
| R105 | CR10J472 | 0.1W 4.7K | 1 | |
| R106 | ERJ6GEYJ101V | 1/8W 100 | 1 | |
| R107 | CR10J224 | 0.1W 220K | 1 | |
| R108 | CR10J472 | 0.1W 4.7K | 1 | |
| R109 | CR10J222 | 0.1W 2.2K | 1 | |
| R110 | CR10J103 | 0.1W 10K | 1 | |
| R111 | CR10J752 | 0.1W 7.5K | 1 | |
| R112 | CR10J102 | 0.1W 1K | 1 | |
| R113 | CR10J471 | 0.1W 470 | 1 | |
| R114 | ERJ6GEYJ101V | 1/8W 100 | 1 | |
| R115 | CR10J332 | 0.1W 3.3K | 1 | |
| R116 | CR10J102 | 0.1W 1K | 1 | |
| R117 | ERJ6GEYJ101V | 1/8W 100 | 1 | |
| R120 | CR10F2210 | 0.1W 221 | 1 | |
| R121 | CR10F1001 | 0.1W 1K | 1 | |
| R122 | CR10J183 | 0.1W 18K | 1 | |
| R124 | CR10F1470 | 0.1W 147 | 1 | |
| R125 | CR10J103 | 0.1W 10K | 1 | |
| R126 | CR10F1002 | 0.1W 10K | 1 | |
| R127 | CR10F3321 | 0.1W 3.32K | 1 | |
| R128 | CR10F1211 | 0.1W 1.21K | 1 | |
| R130 | CR10J822 | 0.1W 8.2K | 1 | |
| R131 | CR10J103 | 0.1W 10K | 1 | |
| R132 | CR10J472 | 0.1W 4.7K | 1 | |
| R136,37 | CR10J152 | 0.1W 1.5K | 2 | |
| R139 | CR10J123 | 0.1W 12K | 1 | |
| R143 | ERDS2FJ822 | 1/4W 8.2K | 1 | |
| R144 | CR10J222 | 0.1W 2.2K | 1 | |
| R145 | CR10F6980 | 0.1W 698 | 1 | |
| R153 | CR10F1002 | 0.1W 10K | 1 | |
| R154 | CR10F3321 | 0.1W 3.32K | 1 | |
| R157 | CR10F2210 | 0.1W 221 | 1 | |
| R158 | CR10J682 | 0.1W 6.8K | 1 | |
| R159 | CR10J103 | 0.1W 10K | 1 | |
| R160 | CR10J332 | 0.1W 3.3K | 1 | |
| R163 | CR10J183 | 0.1W 18K | 1 | |

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R164 | CR10J222 | 0.1W 2.2K | 1 | |
| R165,66 | CR10J103 | 0.1W 10K | 2 | |
| R167,68 | CR10J152 | 0.1W 1.5K | 2 | |
| R169 | CR10J102 | 0.1W 1K | 1 | |
| R170 | CR10J752 | 0.1W 7.5K | 1 | |
| R171 | CR10J472 | 0.1W 4.7K | 1 | |
| R172 | ERJ6GEYJ101V | 1/8W 100 | 1 | |
| R173 | CR10J224 | 0.1W 220K | 1 | |
| R174 | CR10J471 | 0.1W 470 | 1 | |
| R175 | CR10J472 | 0.1W 4.7K | 1 | |
| R176 | CR10F1002 | 0.1W 10K | 1 | |
| R177 | CR10F2432 | 0.1W 24.3K | 1 | |
| R178 | CR10J472 | 0.1W 4.7K | 1 | |
| R179 | CR10J223 | 0.1W 22K | 1 | |
| R195 | CR10J103 | 0.1W 10K | 1 | |
| | | | | |
| T001 | ETB28BF1U6A | TRANSFORMER | 1 | ⚠ |
| | | | | |
| VR101 | ER0S2TKF1580 | 0.25W 158 | 1 | |
| | | | | |
| Z001 | ERZVGAD471 | VARISTOR | 1 | ⚠ |
| | | | | |
| ZD002 | MA4068N | DIODE | 1 | |
| ZD004 | MA8051 | DIODE | 1 | |
| ZD101 | MA4039M | DIODE | 1 | MAZ40390M |
| ZD102 | MAZ8051 | DIODE | 1 | |
| ZD103 | MA8051 | DIODE | 1 | |
| ZD104 | MA8082 | DIODE | 1 | |
| ZD105 | MAZ8051 | DIODE | 1 | |
| ZD106 | MA8051 | DIODE | 1 | |
| ZD107 | RD6.2ESB | DIODE | 1 | |
| | | | | |
| ■ | 08 | REP3713B | | (FRONT(R) P.C.B.) |
| | | | | |
| C7801 | ECJ1VF1A105Z | 10V 1U | 1 | |
| | | | | |
| D7801 | SLR-325MG | LED | 1 | B3ABA0000109 |
| D7804,05 | SLR-325MG | LED | 2 | B3ABA0000109 |
| D7806 | B3ACA0000252 | LED | 1 | |
| | | | | |
| IR7801 | B3RAD0000071 | REMOTE SENSOR | 1 | |
| | | | | |
| K7801,02 | ERJ3GEY0R00V | 1/10W 0 | 2 | |
| | | | | |
| P7801 | K1KA12B00136 | CONNECTOR(12P) | 1 | |
| | | | | |
| QR7801 | UN2214 | TRANSISTOR | 1 | UNR2214 |
| QR7804-06 | UN2214 | TRANSISTOR | 3 | UNR2214 |
| | | | | |
| R7801 | ERDS2FJ330 | 1/4W 33 | 1 | |
| R7802 | ERJ3GEYJ221V | 1/10W 220 | 1 | |
| R7805,06 | ERJ3GEYJ221V | 1/10W 220 | 2 | |
| R7807 | ERJ3GEYJ391V | 1/10W 390 | 1 | |

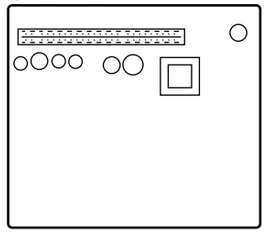
| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| R7809 | ERJ3RBD272 | 1/16W 2.7K | 1 | |
| R7817 | ERJ3RBD272 | 1/16W 2.7K | 1 | |
| R7818 | ERJ3RBD222V | 1/16W 2.2K | 1 | |
| R7819 | ERA3YED332 | 1/16W 3.3K | 1 | |
| R7825 | ERJ3RBD272 | 1/16W 2.7K | 1 | |
| R7826 | ERJ3RBD222V | 1/16W 2.2K | 1 | |
| R7827 | ERA3YED332 | 1/16W 3.3K | 1 | |
| R7828 | ERJ3RBD562V | 1/16W 5.6K | 1 | |
| | | | | |
| S7801 | EVQ11G07K | SWITCH,OPEN/CLOSE | 1 | |
| S7802 | EVQ11G07K | SWITCH,SKIP-F | 1 | |
| S7809 | EVQ11G07K | SWITCH,CH-DOWN | 1 | |
| S7811 | EVQ11G07K | SWITCH,REC | 1 | |
| S7812 | EVQ11G07K | SWITCH,STOP | 1 | |
| S7813 | EVQ11G07K | SWITCH,SKIP-R | 1 | |
| S7819 | EVQ11G07K | SWITCH,CH-UP | 1 | |
| S7820 | EVQ11G07K | SWITCH,TIME WARP | 1 | |
| S7821 | EVQ11G07K | SWITCH,PLAY | 1 | |
| S7822 | EVQ11G07K | SWITCH,SELECT | 1 | |
| | | | | |

# 21. Schematic Diagram for printing with A4 size

## DIGITAL P.C.B.



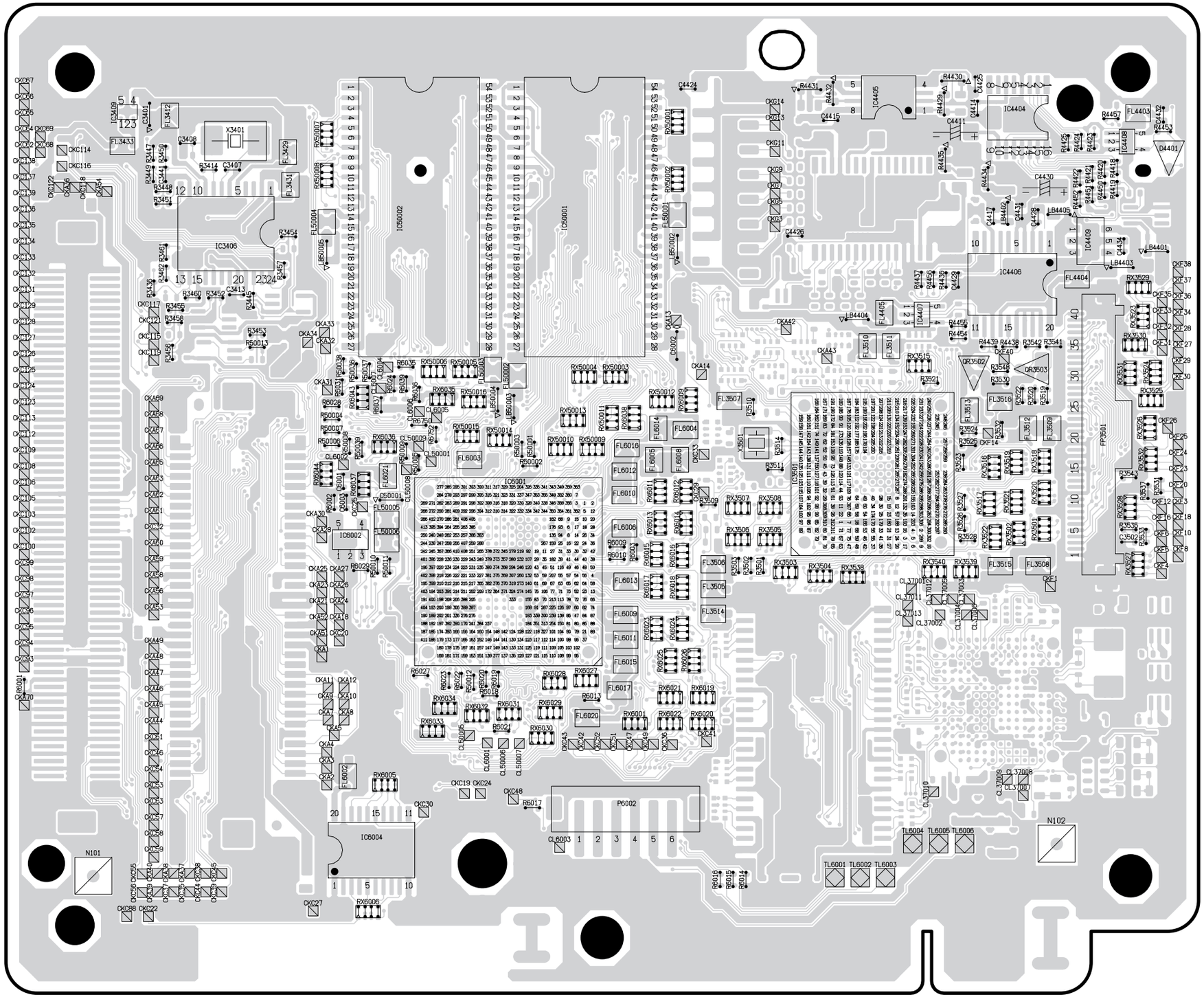

OVER VIEW



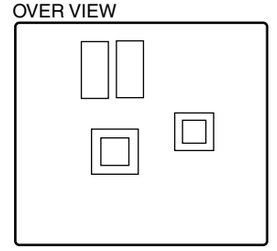
(COMPONENT SIDE)

DMR-E85HEB/EG
Digital P.C.B. (Component Side)
RFKBE85HEB: E85HEB REP3712H: E85HEG

## DIGITAL P.C.B.

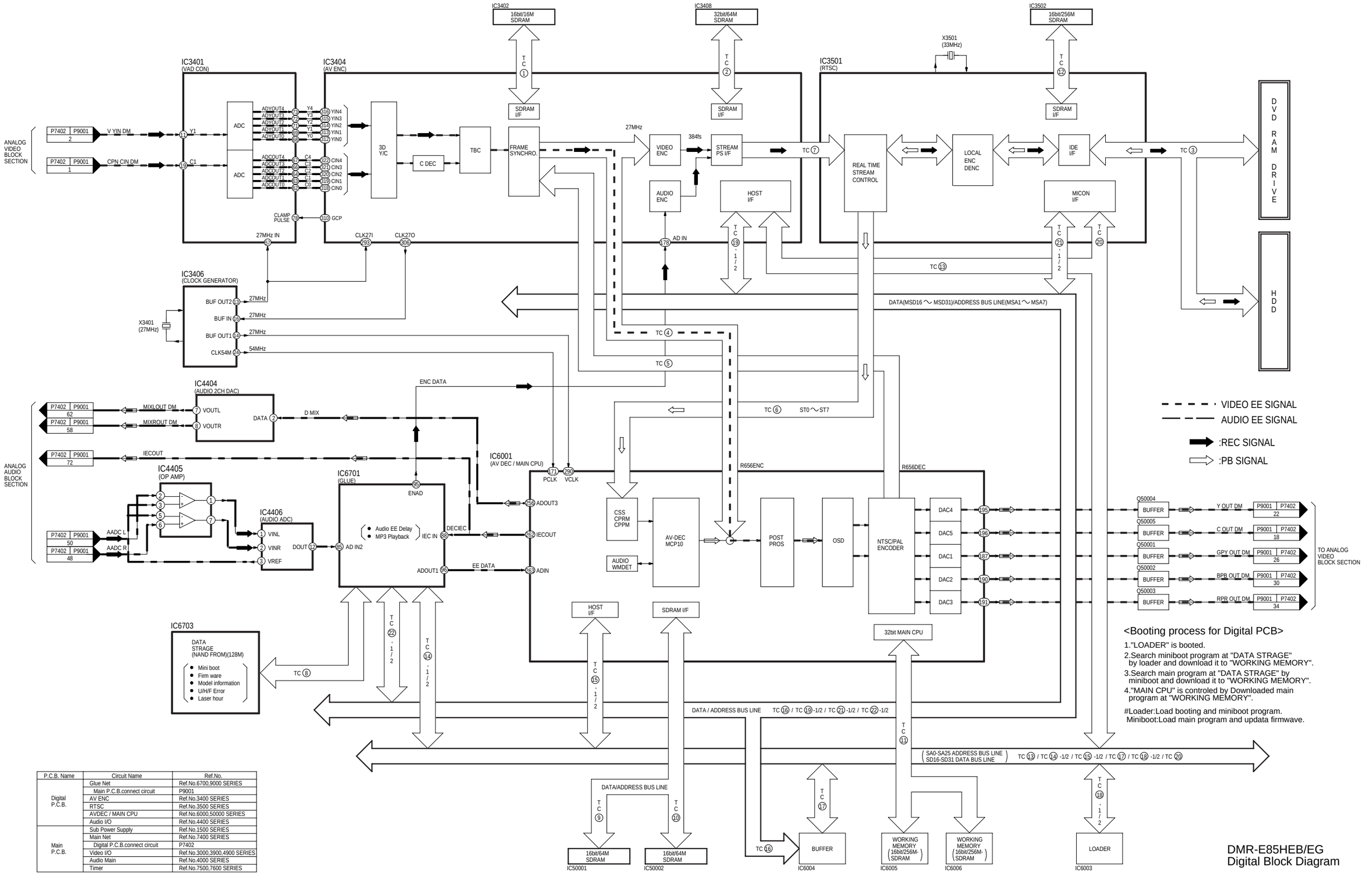


OVER VIEW



**(FOIL SIDE)**

DMR-E85HEB/EG
Digital P.C.B. (Foil Side)
RFKBE85HEB: E85HEB REP3712H: E85HEG




<Booting process for Digital PCB>
1."LOADER" is booted.
2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".
4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".
#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

| P.C.B. Name | Circuit Name | Ref.No. |
|---|---|---|
| Digital P.C.B. | Glue Net | Ref.No.6700,9000 SERIES |
| | Main P.C.B.connect circuit | P9001 |
| | AV ENC | Ref.No.3400 SERIES |
| | RTSC | Ref.No.3500 SERIES |
| | AVDEC / MAIN CPU | Ref.No.6000,50000 SERIES |
| | Audio I/O | Ref.No.4400 SERIES |
| Main P.C.B. | Sub Power Supply | Ref.No.1500 SERIES |
| | Main Net | Ref.No.7400 SERIES |
| | Digital P.C.B.connect circuit | P7402 |
| | Video I/O | Ref.No.3000,3900,4900 SERIES |
| | Audio Main | Ref.No.4000 SERIES |
| | Timer | Ref.No.7500,7600 SERIES |

DMR-E85HEB/EG
Digital Block Diagram

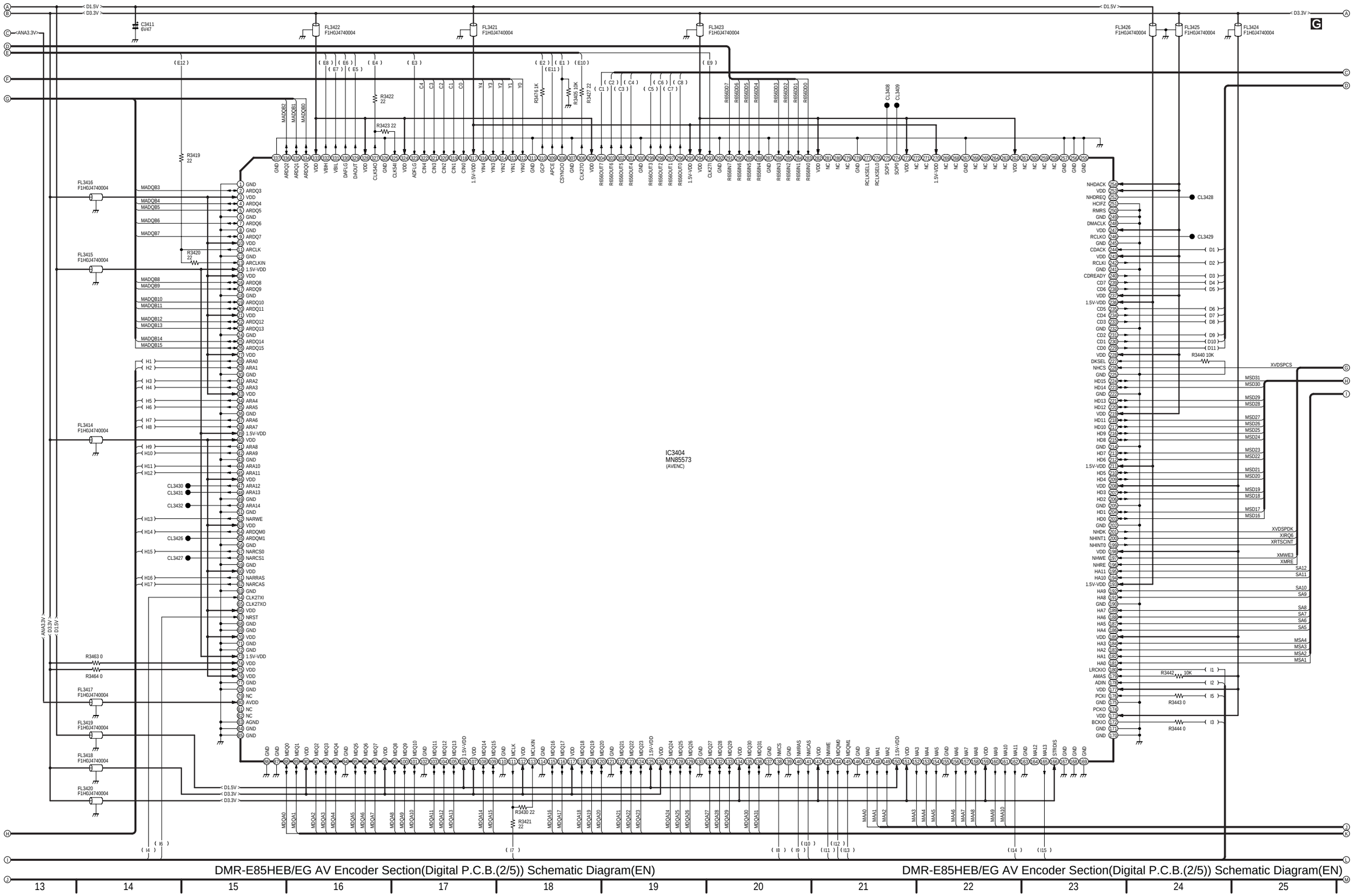
IC3401
AN13310B-VB
(AGC CLAMP)

IC3409
C0DBZGC00066
(REG.D+3.3V)

IC3406
C1DB00001110
(CLOCK GENERATOR)

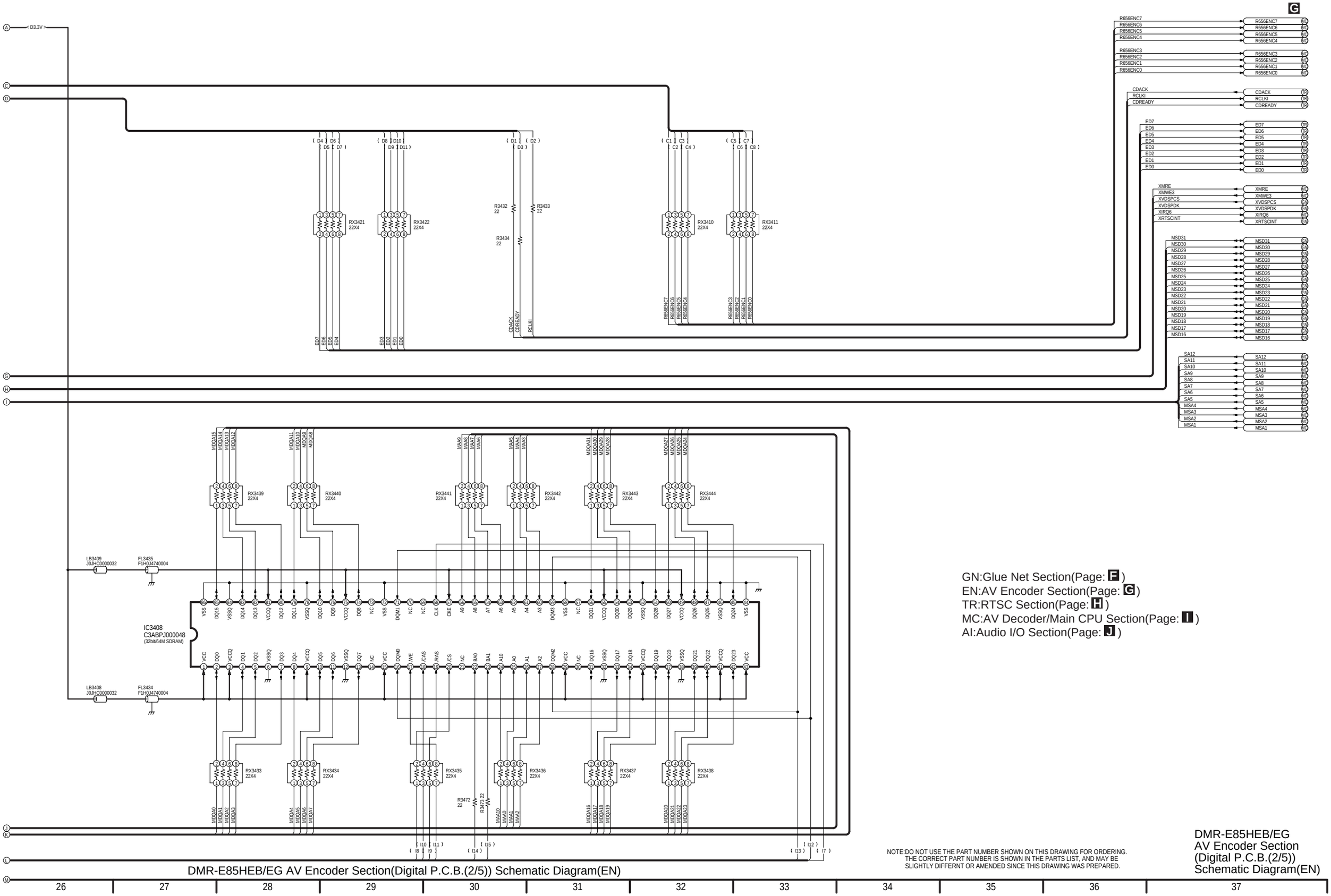
IC3402
C3ABMG000092
(16bit/16M SDRAM)

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )





DMR-E85HEB/EG AV Encoder Section(Digital P.C.B.(2/5)) Schematic Diagram(EN)



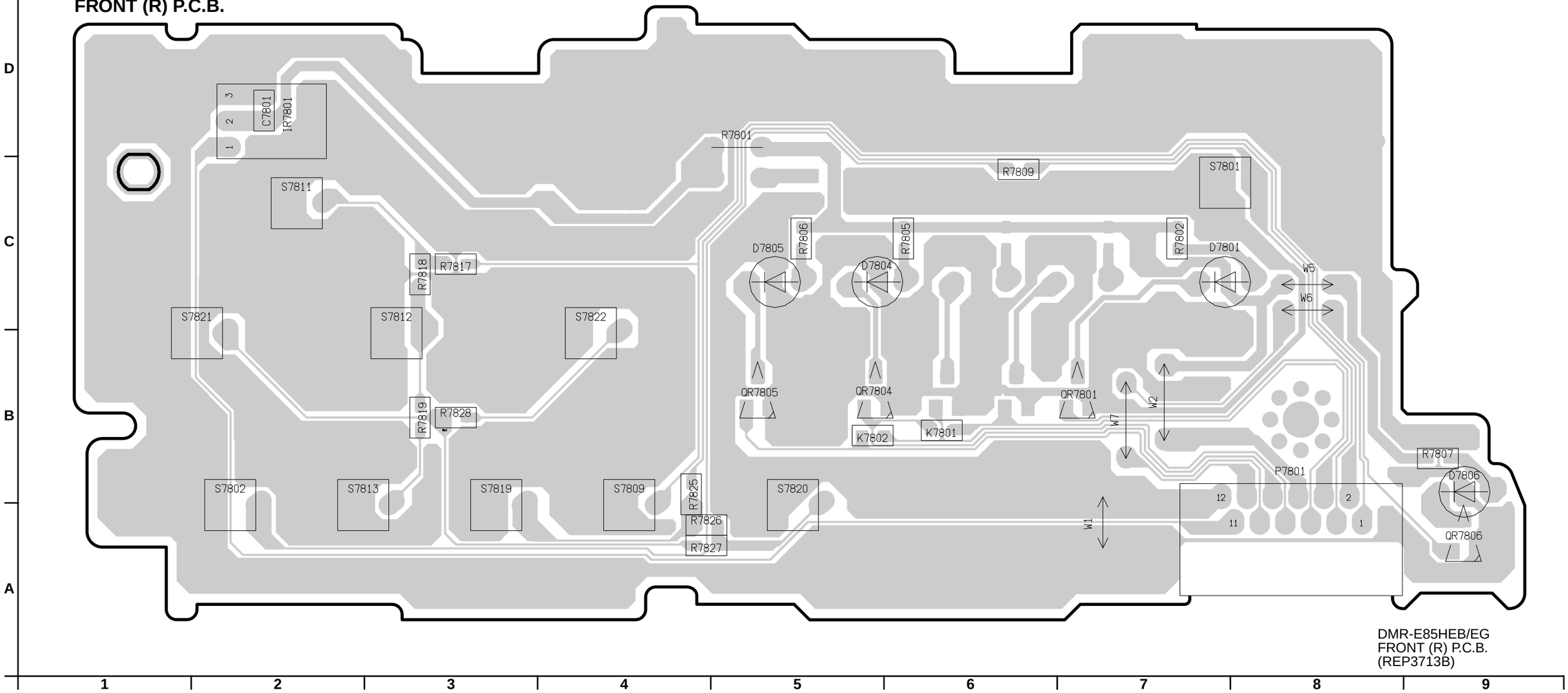

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

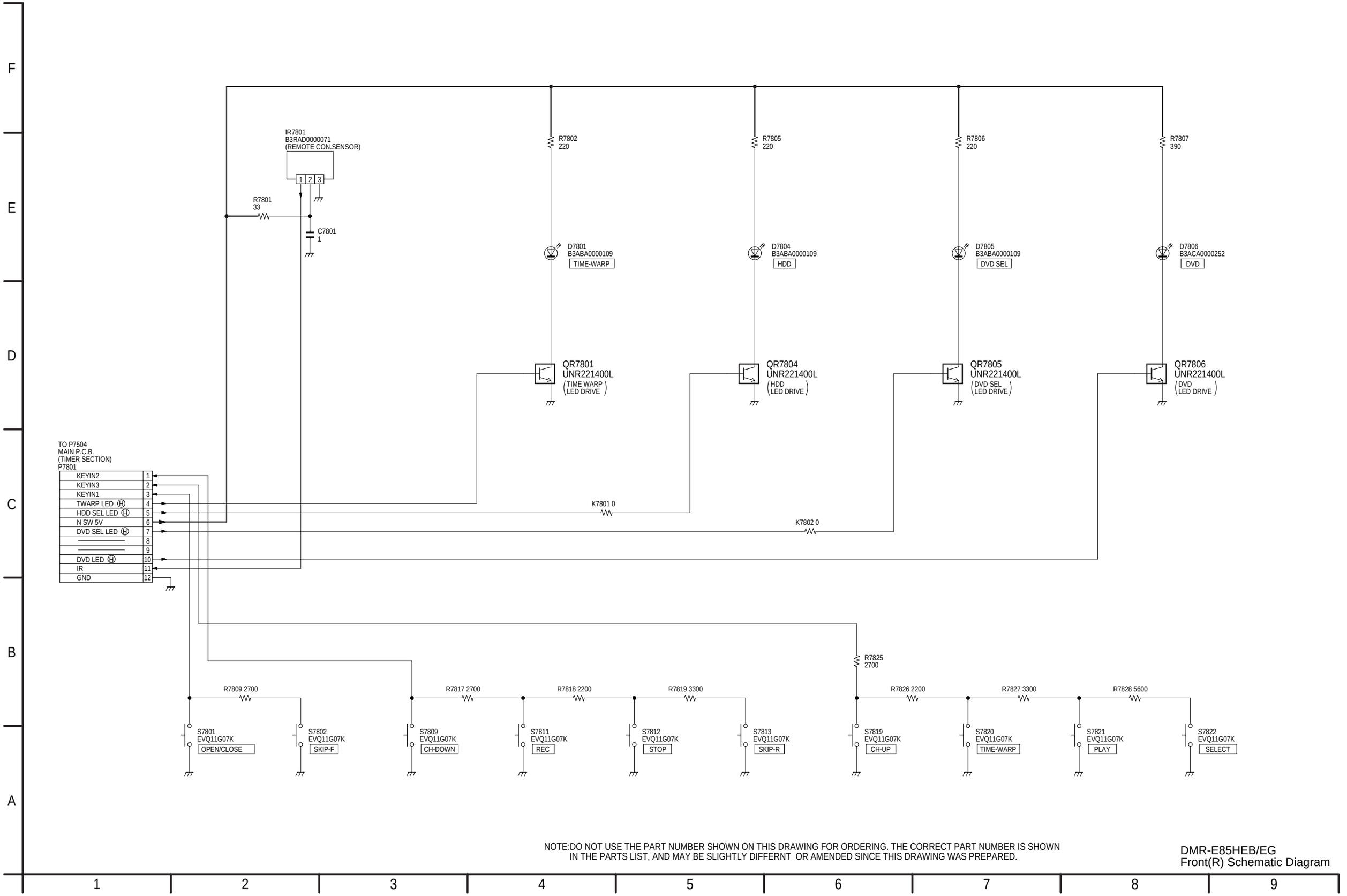
DMR-E85HEB/EG AV Encoder Section (Digital P.C.B.(2/5)) Schematic Diagram(EN)

DMR-E85HEB/EG AV Encoder Section(Digital P.C.B.(2/5)) Schematic Diagram(EN)

**FRONT (R) P.C.B.**




DMR-E85HEB/EG
FRONT (R) P.C.B.
(REP3713B)




NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E85HEB/EG
Front(R) Schematic Diagram

| Ref No. / MODE | QR7801 | | |
|---|---|---|---|
| | E | C | B |
| REC | 0 | 3.5 | 0 |
| PLAY | 0 | 3.5 | 0 |
| STOP | 0 | 3.5 | 0 |

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

IC6701
C1ZBZ0002433
(GLUE)

Q6701
B1ABCF000114
(BUFFER)

DMR-E85HEB/EG
Glue Net Section(Digital P.C.B.(1/5)) Schematic Diagram(GN)

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

IC6703
RFKBE85HEB: E85HEB
REP3712H: E85HEG
(DATA STRAGE)

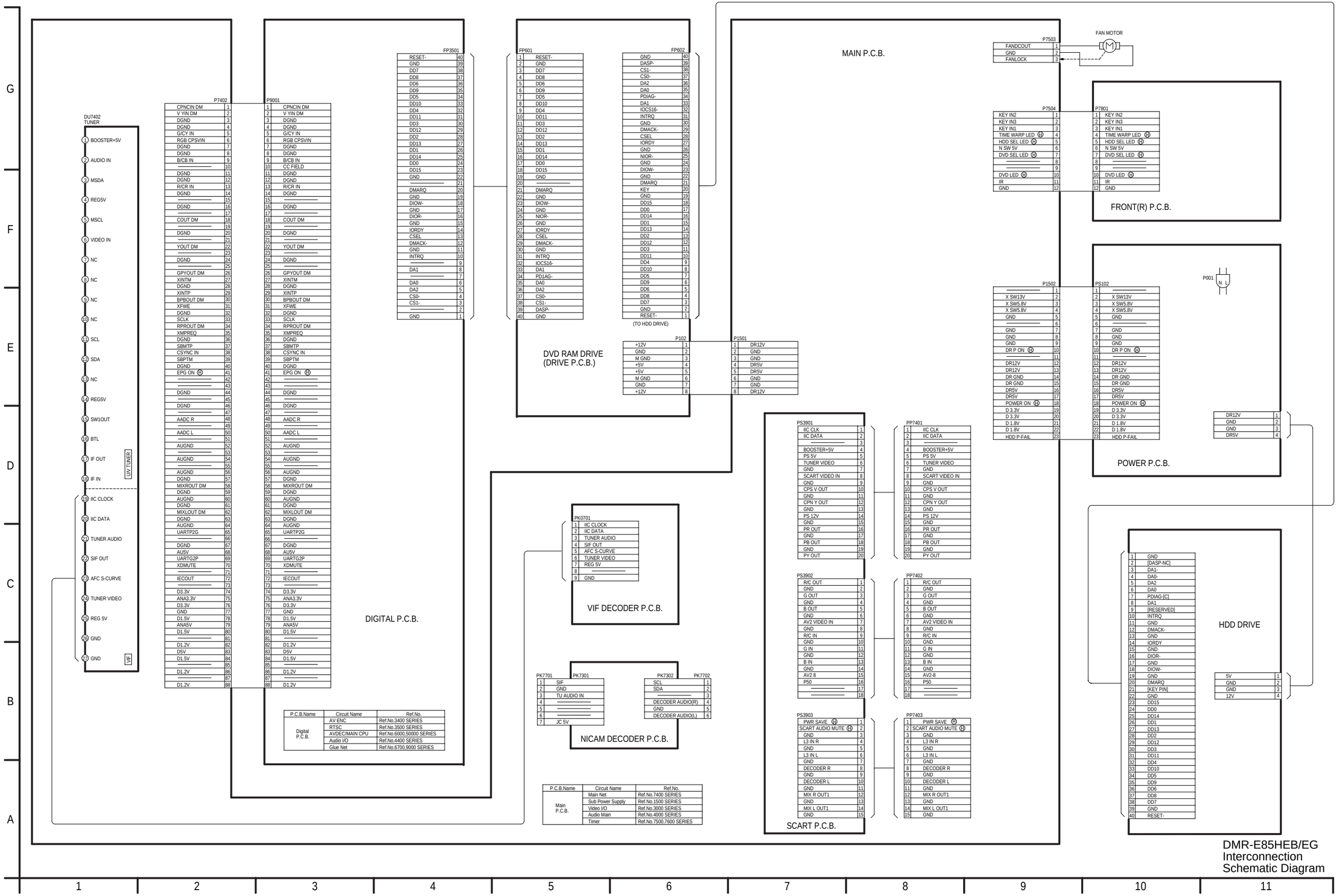
Q6705 B1ABCF000114 (BUFFER)
Q6704 B1ABCF000114 (BUFFER)
Q6703 B1ABCF000114 (BUFFER)
Q6702 B1ABCF000114 (BUFFER)

TO P7402
MAIN P.C.B.
(MAIN NET)
P9001

DMR-E85HEB/EG
Glue Net Section(Digital P.C.B.(1/5)) Schematic Diagram(GN)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E85HEB/EG
Glue Net Section(Digital P.C.B.(1/5))
Schematic Diagram(GN)




| P.C.B.Name | Circuit Name | Ref.No. |
|---|---|---|
| Digital P.C.B. | AV ENC | Ref.No.3400 SERIES |
| | RTSC | Ref.No.3500 SERIES |
| | AVDEC/MAIN CPU | Ref.No.6000,50000 SERIES |
| | Audio I/O | Ref.No.4400 SERIES |
| | Glue Net | Ref.No.6700,9000 SERIES |

| P.C.B.Name | Circuit Name | Ref.No. |
|---|---|---|
| Main P.C.B. | Main Net | Ref.No.7400 SERIES |
| | Sub Power Supply | Ref.No.1500 SERIES |
| | Video I/O | Ref.No.3000 SERIES |
| | Audio Main | Ref.No.4000 SERIES |
| | Timer | Ref.No.7500,7600 SERIES |

## MAIN P.C.B.

**Integrated Circuit**

| | |
|---|---|
| IC1502 | B-8 |
| IC1505 | C-2 |
| IC1506 | B-6 |
| IC1507 | C-2 |
| IC1508 | B-5 |
| IC1509 | C-5 |
| IC1510 | C-5 |
| IC3001 | E-7 |
| IC3002 | D-5 |
| IC3003 | E-5 |
| IC4001 | E-4 |
| IC4005 | F-2 |
| IC4006 | F-2 |
| IC4007 | E-2 |
| IC4009 | E-3 |
| IC4010 | E-2 |
| IC4011 | C-5 |
| IC4012 | E-2 |
| IC4013 | E-2 |
| IC7401 | F-5 |
| IC7402 | F-7 |
| IC7403 | E-7 |
| IC7501 | C-3 |
| IC7502 | A-3 |
| IC7503 | C-2 |
| IC7504 | A-8 |
| IC7505 | C-2 |
| IC7506 | E-1 |
| IC7508 | B-4 |

**Transistor**

| | |
|---|---|
| Q3006 | E-6 |
| Q3007 | E-7 |
| Q3009 | D-5 |
| Q3010 | D-6 |
| Q4004 | D-2 |
| Q4006 | F-2 |
| Q4007 | F-2 |
| Q4008 | D-3 |
| Q4009 | D-4 |
| Q7401 | E-5 |
| Q7402 | E-8 |
| Q7404 | C-7 |
| Q7405 | B-7 |
| Q7406 | B-7 |
| Q7503 | A-2 |
| Q7505 | A-4 |
| Q7506 | A-4 |
| Q7507 | A-4 |
| Q7508 | A-4 |
| Q7511 | A-4 |
| Q7512 | E-1 |
| Q7517 | A-4 |
| Q7518 | A-4 |
| Q7519 | A-5 |

**Transistor-resistor**

| | |
|---|---|
| QR3002 | D-5 |
| QR3003 | D-5 |
| QR4002 | D-3 |
| QR4003 | D-3 |
| QR4004 | D-3 |
| QR4005 | D-3 |
| QR4012 | D-3 |
| QR7401 | F-5 |
| QR7402 | F-5 |
| QR7403 | F-5 |
| QR7404 | F-5 |
| QR7405 | E-5 |
| QR7406 | F-8 |
| QR7407 | F-8 |
| QR7501 | C-4 |
| QR7502 | C-2 |
| QR7503 | A-2 |
| QR7508 | C-7 |

**Test Point**

| | |
|---|---|
| CL7407 | C-6 |
| CL7502 | D-2 |
| CL7503 | C-4 |
| CL7505 | C-4 |
| CL7506 | C-4 |
| CL7507 | C-4 |
| CL7508 | D-2 |
| TL7401 | D-8 |
| TL7501 | A-4 |
| TL7502 | A-2 |
| TL7503 | C-4 |
| TL7504 | C-4 |
| TL7505 | B-2 |
| TL7507 | C-3 |
| TL7508 | A-3 |
| TL7518 | B-7 |
| TL7519 | B-7 |
| TL7520 | A-7 |
| TL7521 | C-7 |
| TL7522 | D-3 |
| TL7523 | C-2 |
| TL7524 | C-7 |
| TL7525 | B-3 |
| TL7526 | B-4 |
| TW7501 | B-1 |

**Connector**

| | |
|---|---|
| JK3001 | F-3 |
| JK7501 | A-7 |
| P1501 | C-2 |
| P1502 | C-1 |
| P7402 | B-6 |
| P7503 | E-1 |
| P7504 | A-1 |
| PP7401 | F-7 |
| PP7402 | F-6 |
| PP7403 | F-4 |
| PP7501 | D-7 |
| PP7502 | E-7 |

**Diode**

| | |
|---|---|
| D1501 | B-2 |
| D4001 | D-3 |
| D4005 | E-2 |
| D4006 | D-4 |
| D7401 | F-5 |
| D7402 | E-8 |
| D7403 | F-5 |
| D7501 | B-2 |
| D7502 | B-2 |
| D7504 | B-2 |
| D7505 | B-2 |
| D7506 | B-2 |
| D7507 | A-4 |
| D7508 | C-2 |
| D7512 | A-5 |

**Crystal Osillator**

| | |
|---|---|
| X7501 | B-4 |
| X7502 | B-4 |

**IC Protector**

| | |
|---|---|
| IP7501 | B-2 |

**Coil**

| | |
|---|---|
| L1501 | C-1 |
| L4002 | E-2 |
| L7401 | C-5 |
| L7402 | F-7 |
| L7403 | D-8 |
| L7502 | B-2 |
| LB1501 | C-1 |
| LB1503 | C-1 |
| LB1504 | B-1 |
| LB1505 | B-1 |
| LB3002 | D-7 |
| LB3003 | D-7 |
| LB3004 | D-5 |
| LB3005 | F-2 |
| LB3006 | F-2 |
| LB3007 | F-2 |
| LB3008 | F-2 |
| LB4001 | E-2 |
| LB7401 | F-8 |
| LB7402 | F-8 |
| LB7403 | F-8 |
| LB7404 | E-8 |
| LB7405 | D-8 |
| LB7406 | D-7 |
| LB7407 | B-7 |
| LB7408 | B-6 |
| LB7409 | B-5 |
| LB7410 | B-5 |
| LB7501 | A-2 |
| LB7502 | A-2 |
| LB7503 | B-2 |
| LB7504 | A-4 |
| LB7506 | B-4 |
| LB7507 | B-4 |
| LB7508 | C-4 |
| LB7509 | C-3 |
| LB7510 | B-2 |
| LB7511 | B-2 |
| LB7512 | A-7 |
| LB7513 | A-7 |
| LB7514 | A-7 |
| LB7515 | A-6 |
| LB7516 | A-6 |

**Capacitor**

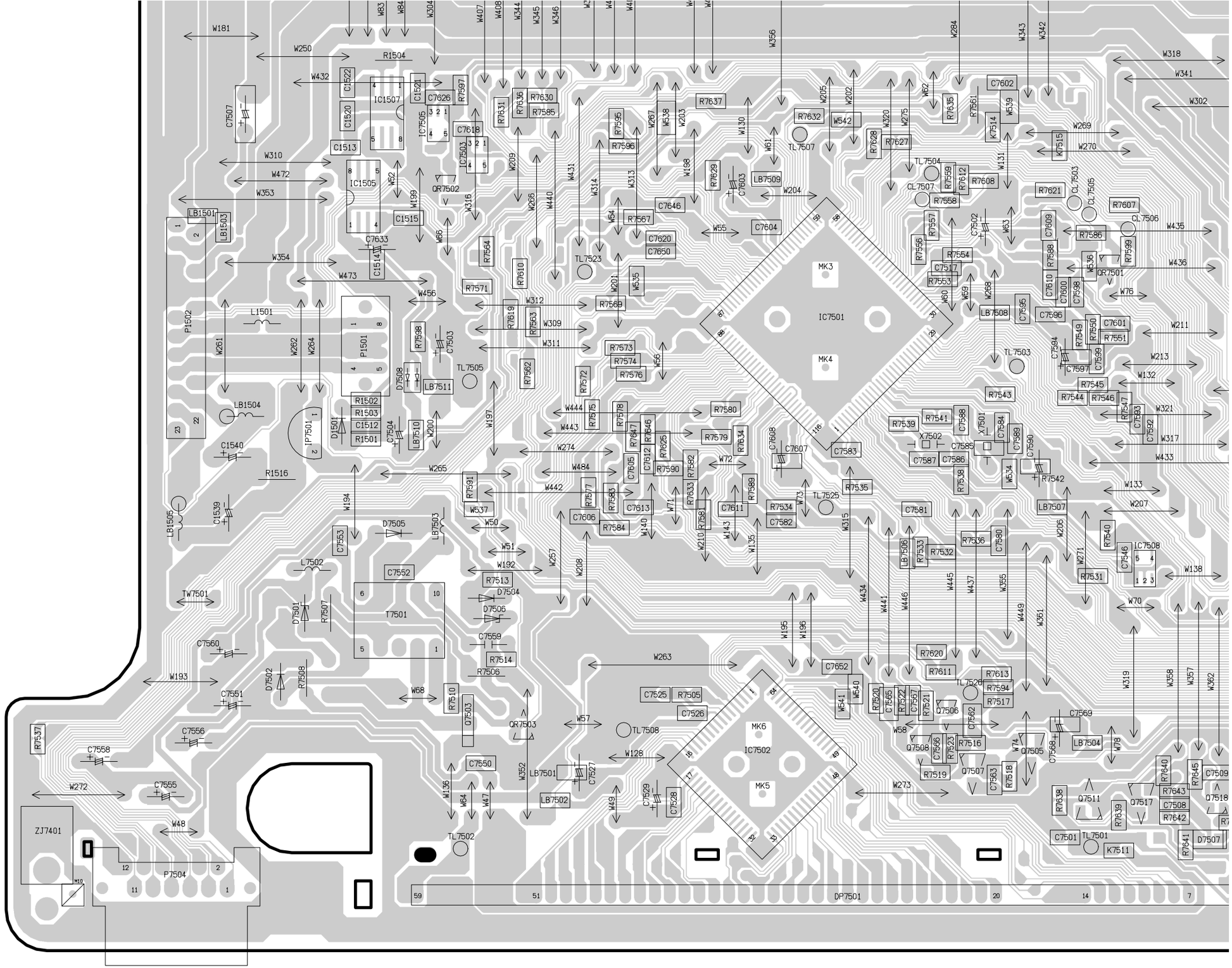
| | |
|---|---|
| C1503 | B-8 |
| C1504 | B-8 |
| C1505 | B-8 |
| C1512 | B-2 |
| C1513 | C-2 |
| C1514 | C-2 |
| C1515 | C-2 |
| C1516 | B-6 |
| C1518 | B-6 |
| C1519 | B-6 |
| C1520 | C-2 |
| C1521 | C-2 |
| C1522 | C-2 |
| C1523 | C-5 |
| C1524 | B-5 |
| C1527 | C-5 |
| C1528 | C-5 |
| C1531 | C-5 |
| C1533 | C-5 |
| C1534 | C-5 |
| C1537 | C-5 |
| C1539 | B-1 |
| C1540 | B-1 |
| C1541 | D-1 |
| C1543 | D-1 |
| C3003 | E-7 |
| C3004 | D-7 |
| C3005 | D-7 |
| C3006 | D-7 |
| C3007 | D-7 |
| C3009 | E-7 |
| C3010 | E-7 |
| C3012 | E-7 |
| C3013 | E-7 |
| C3014 | E-7 |
| C3015 | E-7 |
| C3016 | E-7 |
| C3017 | E-7 |
| C3018 | D-7 |
| C3019 | E-7 |
| C3020 | E-7 |
| C3021 | E-7 |
| C3022 | D-7 |
| C3023 | D-6 |
| C3024 | E-6 |
| C3025 | E-6 |
| C3026 | D-6 |
| C3027 | E-6 |
| C3028 | E-6 |
| C3029 | E-6 |
| C3030 | E-6 |
| C3031 | E-6 |
| C3032 | E-6 |
| C3033 | E-6 |
| C3034 | E-6 |
| C3035 | E-7 |
| C3036 | E-7 |
| C3037 | E-7 |
| C3038 | E-5 |
| C3039 | E-5 |
| C3040 | E-5 |
| C3041 | E-5 |
| C3042 | E-5 |
| C3045 | D-5 |
| C3046 | D-5 |
| C3047 | E-5 |
| C3048 | E-5 |
| C3049 | E-5 |
| C3051 | E-5 |
| C3052 | E-5 |
| C3053 | E-6 |
| C3054 | E-6 |
| C3055 | E-6 |
| C3056 | E-6 |
| C3057 | F-2 |
| C3058 | F-2 |
| C3059 | F-2 |
| C3060 | F-3 |
| C3061 | F-2 |
| C3062 | F-2 |
| C3064 | F-3 |
| C3065 | D-5 |
| C3066 | D-5 |
| C3067 | D-5 |
| C3069 | E-7 |
| C3070 | E-6 |
| C3071 | E-7 |
| C4001 | E-4 |
| C4002 | E-4 |
| C4003 | E-4 |
| C4004 | E-4 |
| C4005 | E-4 |
| C4006 | E-3 |
| C4007 | E-4 |
| C4008 | E-4 |
| C4010 | E-4 |
| C4011 | E-4 |
| C4012 | E-4 |
| C4013 | E-4 |
| C4014 | E-4 |
| C4015 | E-4 |
| C4017 | E-4 |
| C4019 | D-4 |
| C4021 | D-4 |
| C4022 | E-4 |
| C4023 | C-7 |
| C4024 | E-4 |
| C4025 | C-7 |
| C4026 | E-2 |
| C4027 | E-5 |
| C4029 | E-2 |
| C4030 | E-2 |
| C4031 | E-5 |
| C4033 | E-3 |
| C4034 | E-3 |
| C4039 | E-4 |
| C4040 | E-4 |
| C4052 | E-3 |
| C4053 | F-2 |
| C4054 | F-2 |
| C4055 | C-5 |
| C4056 | C-6 |
| C4057 | D-3 |
| C4059 | C-5 |
| C4060 | E-3 |
| C4061 | E-3 |
| C4062 | E-2 |
| C4063 | E-3 |
| C4064 | D-3 |
| C4065 | E-3 |
| C4067 | F-2 |
| C4069 | F-2 |
| C4070 | E-2 |
| C4072 | E-2 |
| C4074 | E-2 |
| C4075 | E-2 |
| C4076 | E-2 |
| C4077 | E-2 |
| C4082 | F-2 |
| C4083 | D-3 |
| C4091 | E-2 |
| C4092 | E-3 |
| C7401 | F-5 |
| C7402 | E-5 |
| C7403 | F-7 |
| C7404 | F-7 |
| C7405 | F-7 |
| C7406 | F-7 |
| C7407 | E-7 |
| C7408 | D-7 |
| C7409 | F-7 |
| C7410 | F-7 |
| C7411 | E-8 |
| C7412 | D-8 |
| C7414 | E-8 |
| C7415 | D-8 |
| C7416 | D-7 |
| C7417 | E-8 |
| C7418 | E-8 |
| C7419 | E-8 |
| C7420 | E-8 |
| C7421 | E-8 |
| C7422 | F-8 |
| C7423 | F-8 |
| C7424 | E-8 |
| C7425 | D-8 |
| C7426 | D-8 |
| C7427 | D-7 |
| C7428 | F-8 |
| C7429 | F-8 |
| C7431 | C-7 |
| C7432 | C-7 |
| C7433 | C-7 |
| C7434 | E-8 |
| C7439 | F-5 |
| C7440 | B-7 |
| C7441 | B-7 |
| C7502 | C-4 |
| C7503 | C-2 |
| C7504 | B-2 |
| C7507 | C-1 |
| C7508 | A-4 |
| C7511 | A-8 |
| C7512 | A-6 |
| C7513 | A-6 |
| C7514 | A-6 |
| C7515 | A-6 |
| C7516 | A-7 |
| C7517 | C-4 |
| C7525 | B-3 |
| C7526 | A-3 |
| C7527 | A-2 |
| C7528 | A-3 |
| C7529 | A-3 |
| C7546 | B-4 |
| C7550 | A-2 |
| C7551 | A-1 |
| C7552 | B-2 |
| C7555 | A-1 |
| C7556 | A-1 |
| C7558 | A-1 |
| C7559 | B-2 |
| C7560 | B-1 |
| C7562 | A-4 |
| C7563 | A-4 |
| C7565 | A-3 |
| C7566 | A-4 |
| C7567 | A-4 |
| C7568 | A-4 |
| C7569 | A-4 |
| C7580 | B-4 |
| C7581 | B-4 |
| C7582 | B-3 |
| C7583 | B-3 |
| C7584 | B-4 |
| C7585 | B-4 |
| C7586 | B-4 |
| C7587 | B-4 |
| C7588 | B-4 |
| C7589 | B-4 |
| C7590 | B-4 |
| C7592 | B-4 |
| C7593 | B-4 |
| C7594 | C-4 |
| C7595 | C-4 |
| C7596 | C-4 |
| C7597 | C-4 |
| C7598 | C-4 |
| C7599 | C-4 |
| C7600 | C-4 |
| C7601 | C-4 |
| C7602 | C-4 |
| C7603 | C-3 |
| C7604 | C-3 |
| C7605 | B-3 |
| C7606 | B-2 |
| C7607 | B-3 |
| C7608 | B-3 |
| C7609 | C-4 |
| C7610 | C-4 |
| C7611 | B-3 |
| C7612 | B-3 |
| C7613 | B-3 |
| C7618 | C-2 |
| C7620 | C-3 |
| C7626 | C-2 |
| C7633 | C-2 |
| C7636 | E-1 |
| C7637 | E-1 |
| C7639 | D-1 |
| C7646 | C-3 |
| C7650 | C-3 |
| C7652 | B-3 |

**Resistor**

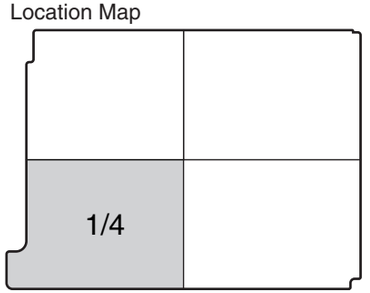
| | |
|---|---|
| R1501 | B-2 |
| R1502 | B-2 |
| R1503 | B-2 |
| R1504 | C-2 |
| R1506 | B-5 |
| R1507 | C-5 |
| R1508 | C-5 |
| R1509 | C-5 |
| R1510 | C-5 |
| R1511 | C-5 |
| R1512 | C-5 |
| R1515 | C-5 |
| R1516 | B-2 |
| R3026 | E-6 |
| R3027 | E-6 |
| R3028 | E-6 |
| R3029 | D-7 |
| R3030 | D-7 |
| R3037 | E-7 |
| R3038 | E-7 |
| R3044 | D-7 |
| R3045 | D-7 |
| R3046 | D-7 |
| R3047 | D-7 |
| R3048 | D-5 |
| R3049 | D-5 |
| R3050 | D-5 |
| R3051 | D-6 |
| R3052 | D-5 |
| R3053 | D-5 |
| R3054 | F-3 |
| R3055 | F-3 |
| R3056 | F-3 |
| R3057 | F-3 |
| R3058 | F-3 |
| R3059 | F-3 |
| R3060 | E-7 |
| R4001 | E-3 |
| R4002 | D-3 |
| R4004 | D-3 |
| R4005 | D-4 |
| R4006 | E-4 |
| R4007 | D-4 |
| R4008 | E-3 |
| R4009 | E-3 |
| R4010 | D-4 |
| R4011 | D-4 |
| R4012 | E-4 |
| R4013 | E-3 |
| R4014 | D-3 |
| R4015 | E-5 |
| R4017 | D-2 |
| R4018 | E-4 |
| R4019 | C-7 |
| R4020 | C-7 |
| R4021 | E-5 |
| R4022 | E-5 |
| R4023 | E-5 |
| R4046 | E-3 |
| R4047 | E-3 |
| R4049 | E-4 |
| R4052 | D-4 |
| R4053 | E-4 |
| R4054 | E-4 |
| R4055 | E-3 |
| R4056 | E-4 |
| R4057 | D-3 |
| R4060 | E-4 |
| R4061 | D-4 |
| R4066 | E-2 |
| R4067 | E-2 |
| R4070 | E-2 |
| R4071 | E-3 |
| R4074 | D-3 |
| R4076 | E-3 |
| R4077 | E-3 |
| R4078 | F-2 |
| R4079 | F-2 |
| R4080 | D-3 |
| R4081 | D-3 |
| R4087 | E-2 |
| R4088 | D-3 |
| R4089 | D-4 |
| R4090 | F-2 |
| R4093 | F-2 |
| R4099 | F-2 |
| R7401 | F-5 |
| R7402 | F-5 |
| R7403 | F-5 |
| R7404 | F-5 |
| R7405 | F-5 |
| R7406 | E-5 |
| R7407 | E-5 |
| R7408 | E-5 |
| R7409 | F-7 |
| R7410 | F-7 |
| R7411 | C-8 |
| R7412 | E-8 |
| R7413 | F-8 |
| R7414 | F-8 |
| R7415 | E-8 |
| R7416 | E-8 |
| R7417 | C-8 |
| R7419 | E-8 |
| R7420 | E-8 |
| R7421 | C-7 |
| R7423 | F-8 |
| R7427 | B-7 |
| R7428 | C-7 |
| R7429 | C-7 |
| R7430 | B-7 |
| R7431 | C-7 |
| R7432 | C-7 |
| R7433 | B-7 |
| R7434 | C-7 |
| R7435 | C-7 |
| R7436 | E-8 |
| R7437 | D-8 |
| R7438 | C-6 |
| R7439 | C-6 |
| R7440 | C-6 |
| R7441 | C-6 |
| R7442 | C-6 |
| R7443 | C-6 |
| R7444 | E-8 |
| R7505 | B-3 |
| R7506 | B-2 |
| R7507 | B-2 |
| R7508 | B-2 |
| R7510 | B-2 |
| R7513 | B-2 |
| R7514 | B-2 |
| R7516 | A-4 |
| R7517 | A-4 |
| R7518 | A-4 |
| R7519 | A-4 |
| R7520 | B-3 |
| R7521 | A-4 |
| R7522 | A-3 |
| R7523 | A-4 |
| R7530 | B-5 |
| R7531 | B-4 |
| R7532 | B-4 |
| R7533 | B-4 |
| R7534 | B-3 |
| R7535 | B-3 |
| R7536 | B-4 |
| R7537 | A-1 |
| R7538 | B-4 |
| R7539 | B-3 |
| R7540 | B-4 |
| R7541 | B-4 |
| R7542 | B-4 |
| R7543 | B-4 |
| R7544 | B-4 |
| R7545 | B-4 |
| R7546 | B-4 |
| R7547 | B-4 |
| R7548 | B-8 |
| R7549 | C-4 |
| R7550 | C-4 |
| R7551 | C-4 |
| R7552 | B-8 |
| R7553 | C-4 |
| R7554 | C-4 |
| R7556 | C-4 |
| R7557 | C-4 |
| R7558 | C-4 |
| R7559 | C-4 |
| R7561 | C-4 |
| R7562 | C-2 |
| R7563 | C-2 |
| R7564 | C-2 |
| R7567 | C-3 |
| R7569 | C-3 |
| R7571 | C-2 |
| R7572 | B-2 |
| R7573 | C-3 |
| R7574 | C-3 |
| R7575 | B-3 |
| R7576 | C-3 |
| R7577 | B-3 |
| R7578 | B-3 |
| R7579 | B-3 |
| R7580 | B-3 |
| R7581 | B-3 |
| R7582 | B-3 |
| R7583 | B-3 |
| R7584 | B-3 |
| R7585 | C-2 |
| R7586 | C-4 |
| R7588 | C-4 |
| R7589 | B-3 |
| R7590 | B-3 |
| R7591 | B-2 |
| R7594 | B-4 |
| R7595 | C-3 |
| R7596 | C-3 |
| R7597 | C-2 |
| R7598 | C-2 |
| R7599 | C-4 |
| R7600 | E-2 |
| R7601 | E-2 |
| R7602 | E-1 |
| R7603 | E-1 |
| R7604 | A-7 |
| R7605 | A-7 |
| R7606 | A-7 |
| R7607 | C-4 |
| R7611 | B-4 |
| R7612 | C-4 |
| R7613 | B-4 |
| R7617 | A-5 |
| R7619 | C-2 |
| R7620 | B-4 |
| R7621 | C-4 |
| R7625 | B-3 |
| R7626 | A-8 |
| R7627 | C-3 |
| R7628 | C-3 |
| R7629 | C-3 |
| R7630 | C-2 |
| R7631 | C-2 |
| R7632 | C-3 |
| R7633 | B-3 |
| R7634 | B-3 |
| R7635 | C-4 |
| R7636 | C-2 |
| R7637 | C-3 |
| R7638 | A-4 |
| R7639 | A-4 |
| R7640 | A-4 |
| R7641 | A-4 |
| R7642 | A-4 |
| R7643 | A-4 |
| R7644 | A-5 |
| R7645 | A-4 |
| R7646 | B-3 |
| R7647 | B-3 |
| R7649 | C-7 |
| R7670 | C-7 |
| R7671 | A-6 |
| R7672 | A-6 |

**Transformer**

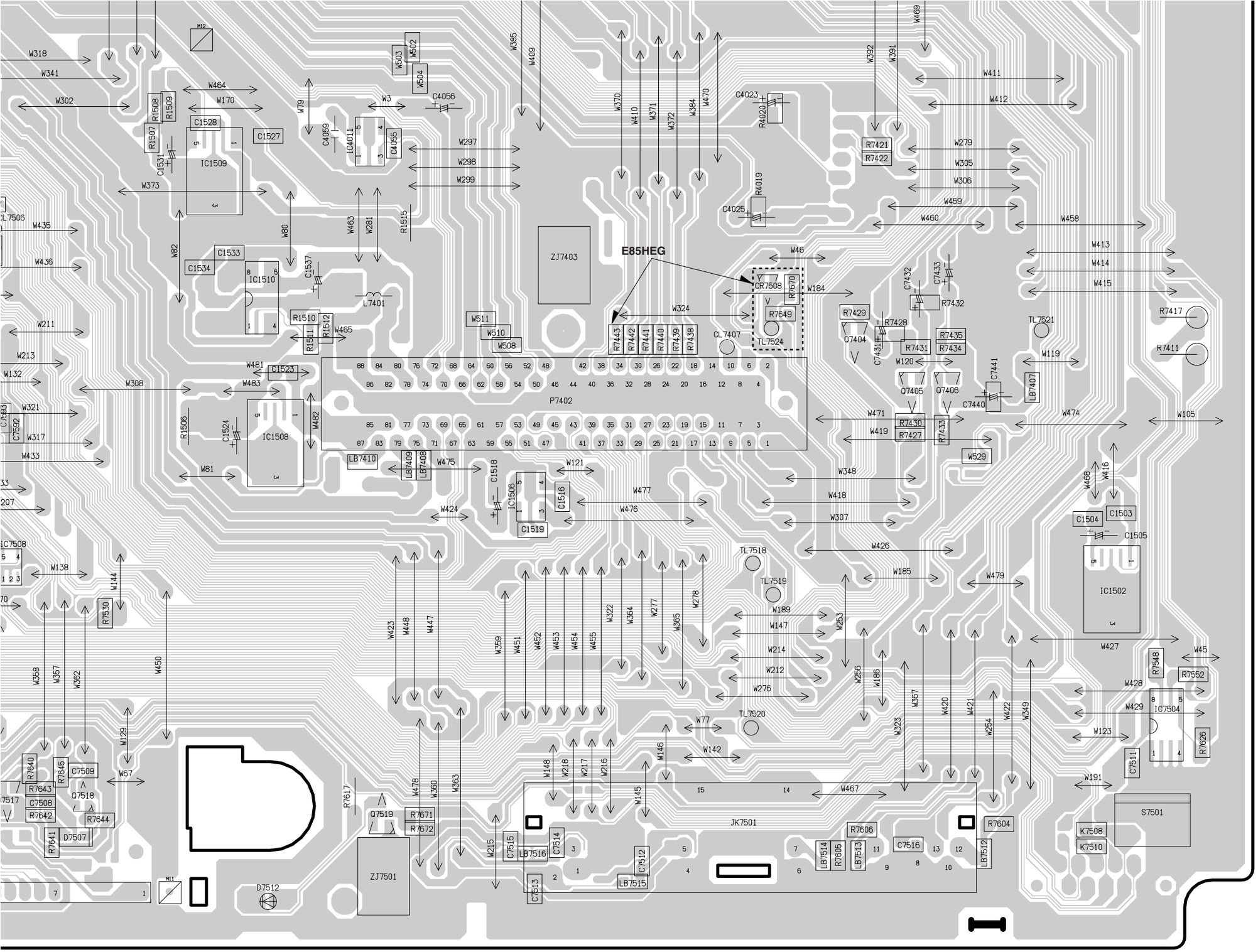
| | |
|---|---|
| T7501 | B-2 |




Location Map




DMR-E85HEB/EG
Main P.C.B.
REP3766A: E85HEG
REP3766B: E85HEB
(1/4 Section)


E85HEG
ZJ7403
P7402
JK7501
IC1509
IC1510
IC1508
IC1506
IC1502
IC7504
IC7508
ZJ7501
S7501
TL7518
TL7519
TL7520
TL7521
TL7524
CL7407
D7507
D7512
Q7404
Q7405
Q7406
Q7518
Q7519
W318
W341
W302
W464
W170
W79
W3
W297
W298
W299
W373
W435
W436
W82
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W463
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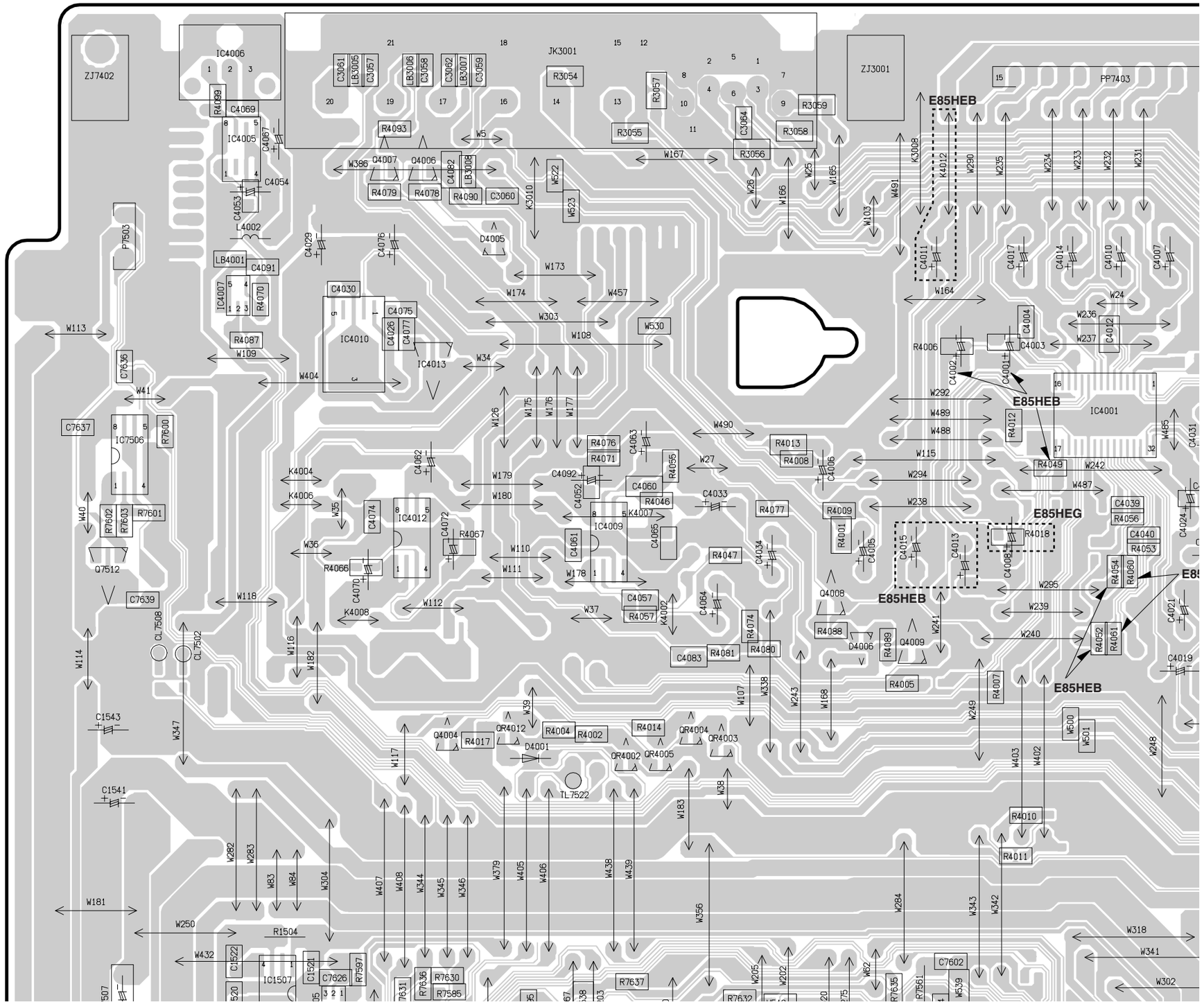
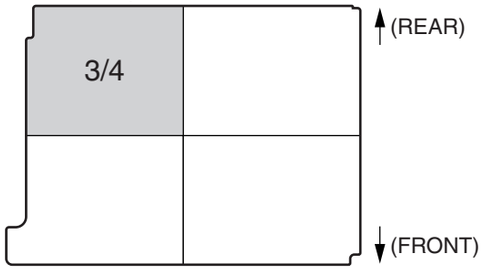
W582
W583

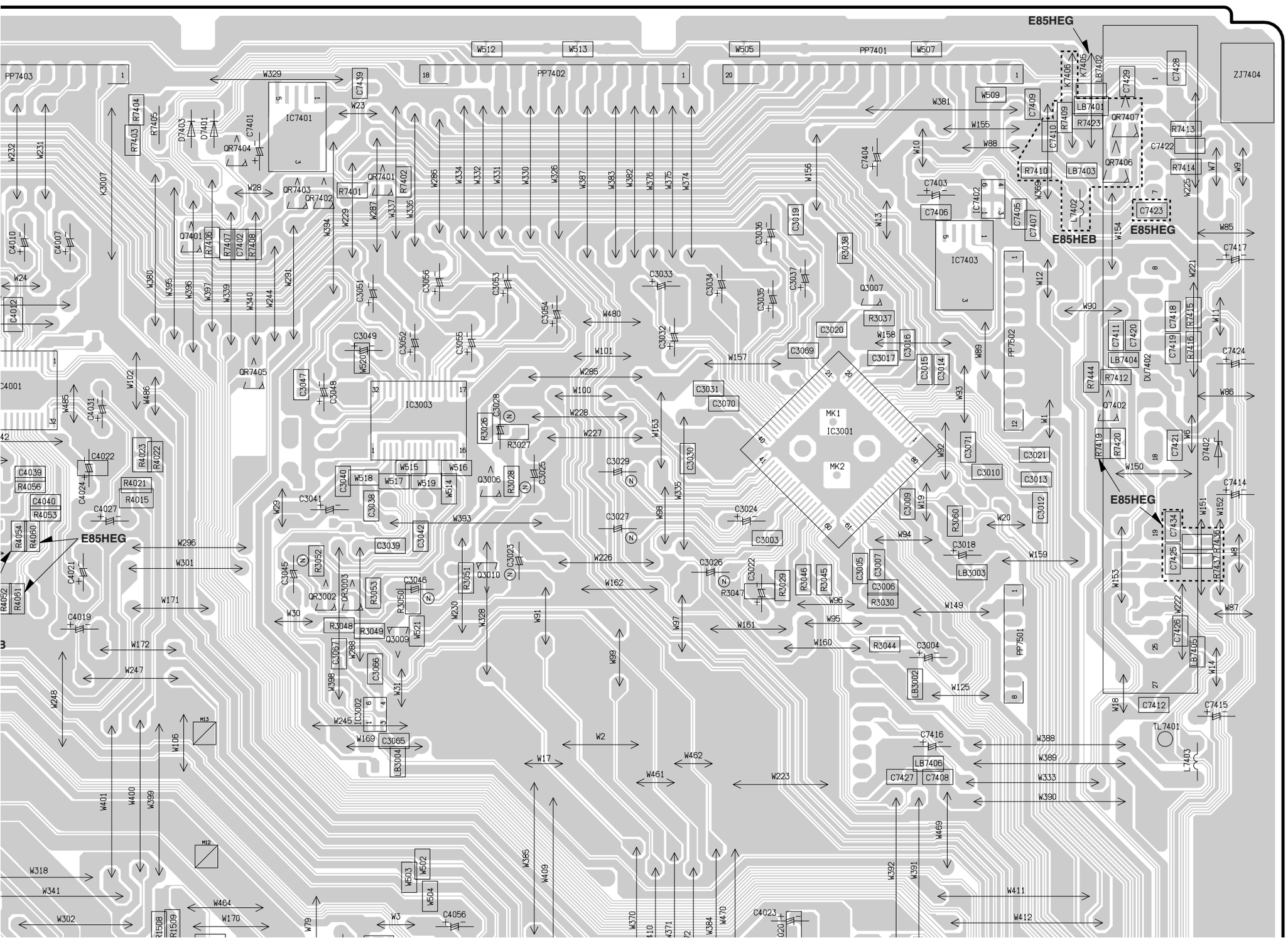
# MAIN P.C.B.




Location Map




DMR-E85HEB/EG
Main P.C.B.
REP3766A: E85HEG
REP3766B: E85HEB
(3/4 Section)


E85HEG
E85HEB
E85HEG
E85HEG
E85HEG
PP7403
PP7402
PP7401
PP7502
PP7501
IC7401
IC7403
IC3003
IC3001
MK1
MK2
ZJ7404
W512
W513
W505
W507
W509
W329
W23
W381
W155
W88
W10
W156
W13
W28
W24
W480
W101
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W100
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W226
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W248
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W4470
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W31
W245
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W288
W230
W328
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W93
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W6
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W151
W150
W153
W222
W87
W14
W18
W12
W11
W10
W7
W9
W85
W86
W90
W221
W225
W154
W155
W381
W509
W507
W505
W513
W512
W329
W23

## IC Pin Terminal Chart ( TC 1 - TC 8 )

| TC | IC3404 / AVENC | | SIGNAL NAME | IC3402 / SDRAM | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 1 | ARDQ0 | 334 | MADQB0 | 2 | DQ0 |
| | ARDQ1 | 335 | MADQB1 | 3 | DQ1 |
| | ARDQ2 | 336 | MADQB2 | 5 | DQ2 |
| | ARDQ3 | 2 | MADQB3 | 6 | DQ3 |
| | ARDQ4 | 4 | MADQB4 | 8 | DQ4 |
| | ARDQ5 | 5 | MADQB5 | 9 | DQ5 |
| | ARDQ6 | 7 | MADQB6 | 11 | DQ6 |
| | ARDQ7 | 9 | MADQB7 | 12 | DQ7 |
| | ARDQ8 | 16 | MADQB8 | 39 | DQ8 |
| | ARDQ9 | 17 | MADQB9 | 40 | DQ9 |
| | ARDQ10 | 19 | MADQB10 | 42 | DQ10 |
| | ARDQ11 | 20 | MADQB11 | 43 | DQ11 |
| | ARDQ12 | 22 | MADQB12 | 45 | DQ12 |
| | ARDQ13 | 23 | MADQB13 | 46 | DQ13 |
| | ARDQ14 | 25 | MADQB14 | 48 | DQ14 |
| | ARDQ15 | 26 | MADQB15 | 49 | DQ15 |
| | ARA0 | 28 | MAB0 | 21 | A0 |
| | ARA1 | 29 | MAB1 | 22 | A1 |
| | ARA2 | 31 | MAB2 | 23 | A2 |
| | ARA3 | 32 | MAB3 | 24 | A3 |
| | ARA4 | 34 | MAB4 | 27 | A4 |
| | ARA5 | 35 | MAB5 | 28 | A5 |
| | ARA6 | 37 | MAB6 | 29 | A6 |
| | ARA7 | 38 | MAB7 | 30 | A7 |
| | ARA8 | 41 | MAB8 | 31 | A8 |
| | ARA9 | 42 | MAB9 | 32 | A9 |
| | ARA10 | 44 | MAB10 | 20 | A10 |
| | ARA11 | 45 | BAOS D | 19 | A11 |

| TC | IC3404 / AV ENC | | SIGNAL NAME | IC3408 / SDRAM | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 2 | MDQ0 | 88 | MDQA0 | 2 | DQ0 |
| | MDQ1 | 89 | MDQA1 | 4 | DQ1 |
| | MDQ2 | 91 | MDQA2 | 5 | DQ2 |
| | MDQ3 | 92 | MDQA3 | 7 | DQ3 |
| | MDQ4 | 93 | MDQA4 | 8 | DQ4 |
| | MDQ5 | 95 | MDQA5 | 10 | DQ5 |
| | MDQ6 | 96 | MDQA6 | 11 | DQ6 |
| | MDQ7 | 97 | MDQA7 | 13 | DQ7 |
| | MDQ8 | 99 | MDQA8 | 74 | DQ8 |
| | MDQ9 | 100 | MDQA9 | 76 | DQ9 |
| | MDQ10 | 101 | MDQA10 | 77 | DQ10 |
| | MDQ11 | 103 | MDQA11 | 79 | DQ11 |
| | MDQ12 | 104 | MDQA12 | 80 | DQ12 |
| | MDQ13 | 105 | MDQA13 | 82 | DQ13 |
| | MDQ14 | 108 | MDQA14 | 83 | DQ14 |
| | MDQ15 | 109 | MDQA15 | 85 | DQ15 |
| | MDQ16 | 115 | MDQA16 | 31 | DQ16 |
| | MDQ17 | 116 | MDQA17 | 33 | DQ17 |
| | MDQ18 | 118 | MDQA18 | 34 | DQ18 |
| | MDQ19 | 119 | MDQA19 | 36 | DQ19 |
| | MDQ20 | 120 | MDQA20 | 37 | DQ20 |
| | MDQ21 | 122 | MDQA21 | 39 | DQ21 |
| | MDQ22 | 123 | MDQA22 | 40 | DQ22 |
| | MDQ23 | 124 | MDQA23 | 42 | DQ23 |
| | MDQ24 | 127 | MDQA24 | 45 | DQ24 |
| | MDQ25 | 128 | MDQA25 | 47 | DQ25 |
| | MDQ26 | 129 | MDQA26 | 48 | DQ26 |
| | MDQ27 | 131 | MDQA27 | 50 | DQ27 |
| | MDQ28 | 132 | MDQA28 | 51 | DQ28 |
| | MDQ29 | 133 | MDQA29 | 53 | DQ29 |
| | MDQ30 | 135 | MDQA30 | 54 | DQ30 |
| | MDQ31 | 136 | MDQA31 | 56 | DQ31 |
| | MA0 | 147 | MAA0 | 25 | A0 |
| | MA1 | 148 | MAA1 | 26 | A1 |
| | MA2 | 149 | MAA2 | 27 | A2 |
| | MA3 | 152 | MAA3 | 60 | A3 |
| | MA4 | 153 | MAA4 | 61 | A4 |
| | MA5 | 154 | MAA5 | 62 | A5 |
| | MA6 | 156 | MAA6 | 63 | A6 |
| | MA7 | 157 | MAA7 | 64 | A7 |
| | MA8 | 158 | MAA8 | 65 | A8 |
| | MA9 | 160 | MAA9 | 66 | A9 |
| | MA10 | 161 | MAA10 | 24 | A10 |

| TC | IC3501 / RTSC | | SIGNAL NAME | FP3501 (TO DVD RAM&HDD | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 3 | IHDD0 | 251 | RAMD0 | 24 | DD0 |
| | IHDD1 | 250 | RAMD1 | 26 | DD1 |
| | IHDD2 | 249 | RAMD2 | 28 | DD2 |
| | IHDD3 | 248 | RAMD3 | 30 | DD3 |
| | IHDD4 | 246 | RAMD4 | 32 | DD4 |
| | IHDD5 | 245 | RAMD5 | 34 | DD5 |
| | IHDD6 | 244 | RAMD6 | 36 | DD6 |
| | IHDD7 | 243 | RAMD7 | 38 | DD7 |
| | IHDD8 | 239 | RAMD8 | 37 | DD8 |
| | IHDD9 | 238 | RAMD9 | 35 | DD9 |
| | IHDD10 | 237 | RAMD10 | 33 | DD10 |
| | IHDD11 | 236 | RAMD11 | 31 | DD11 |
| | IHDD12 | 235 | RAMD12 | 29 | DD12 |
| | IHDD13 | 233 | RAMD13 | 27 | DD13 |
| | IHDD14 | 232 | RAMD14 | 25 | DD14 |
| | IHDD15 | 231 | RAMD15 | 23 | DD15 |

| TC | IC3404 / AVENC | | SIGNAL NAME | IC6001 / AV DEC&MAIN CPU | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 4 | R656OUT0 | 296 | R656ENC0 | 278 | VDIN0 |
| | R656OUT1 | 297 | R656ENC1 | 277 | VDIN1 |
| | R656OUT2 | 298 | R656ENC2 | 272 | VDIN2 |
| | R656OUT3 | 299 | R656ENC3 | 271 | VDIN3 |
| | R656OUT4 | 301 | R656ENC4 | 270 | VDIN4 |
| | R656OUT5 | 302 | R656ENC5 | 269 | VDIN5 |
| | R656OUT6 | 303 | R656ENC6 | 268 | VDIN6 |
| | R656OUT7 | 304 | R656ENC7 | 266 | VDIN7 |

| TC | IC6001/AV DEC&MAIN CPU | | SIGNAL NAME | IC3404 / AVENC | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 5 | VDOUT0 | 289 | R656DEC0 | 283 | R656IN0 |
| | VDOUT1 | 288 | R656DEC1 | 284 | R656IN1 |
| | VDOUT2 | 286 | R656DEC2 | 285 | R656IN2 |
| | VDOUT3 | 285 | R656DEC3 | 286 | R656IN3 |
| | VDOUT4 | 284 | R656DEC4 | 288 | R656IN4 |
| | VDOUT5 | 283 | R656DEC5 | 289 | R656IN5 |
| | VDOUT6 | 282 | R656DEC6 | 290 | R656IN6 |
| | VDOUT7 | 281 | R656DEC7 | 291 | R656IN7 |

| TC | IC3501 / RTSC | | SIGNAL NAME | IC6001/AV DEC&MAIN CPU | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 6 | B3DATA0 | 46 | STD0 | 251 | STD0 |
| | B3DATA1 | 47 | STD1 | 250 | STD1 |
| | B3DATA2 | 48 | STD2 | 249 | STD2 |
| | B3DATA3 | 49 | STD3 | 248 | STD3 |
| | B3DATA4 | 53 | STD4 | 247 | STD4 |
| | B3DATA5 | 54 | STD5 | 245 | STD5 |
| | B3DATA6 | 55 | STD6 | 244 | STD6 |
| | B3DATA7 | 56 | STD7 | 243 | STD7 |

| TC | IC3404 / AVENC | | SIGNAL NAME | IC3501 / RTSC | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 7 | CD0 | 229 | ED0 | 27 | B2DATA0 |
| | CD1 | 230 | ED1 | 28 | B2DATA1 |
| | CD2 | 231 | ED2 | 30 | B2DATA2 |
| | CD3 | 233 | ED3 | 31 | B2DATA3 |
| | CD4 | 234 | ED4 | 33 | B2DATA4 |
| | CD5 | 235 | ED5 | 34 | B2DATA5 |
| | CD6 | 238 | ED6 | 36 | B2DATA6 |
| | CD7 | 239 | ED7 | 37 | B2DATA7 |

| TC | IC6701 / GLUE | | SIGNAL NAME | IC6703 / DATA STRAGE | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 8 | ECCD0 | 67 | DE0 | 29 | D0 |
| | ECCD1 | 70 | DE1 | 30 | D1 |
| | ECCD2 | 69 | DE2 | 31 | D2 |
| | ECCD3 | 68 | DE3 | 32 | D3 |
| | ECCD4 | 71 | DE4 | 41 | D4 |
| | ECCD5 | 74 | DE5 | 42 | D5 |
| | ECCD6 | 73 | DE6 | 43 | D6 |
| | ECCD7 | 72 | DE7 | 44 | D7 |

## IC Pin Terminal Chart ( TC9 - TC12 )

| TC | IC6001 / AV DEC&MAIN CPU | | SIGNAL NAME | IC50001 / SDRAM | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 9 | MDQM0 | 343 | DQ0 | 2 | DQ0 |
| | MDQM1 | 346 | DQ1 | 4 | DQ1 |
| | MDQM2 | 348 | DQ2 | 5 | DQ2 |
| | MDQM3 | 350 | DQ3 | 7 | DQ3 |
| | MDQM4 | 353 | DQ4 | 8 | DQ4 |
| | MDQM5 | 355 | DQ5 | 10 | DQ5 |
| | MDQM6 | 358 | DQ6 | 11 | DQ6 |
| | MDQM7 | 360 | DQ7 | 13 | DQ7 |
| | MDQM8 | 359 | DQ8 | 42 | DQ8 |
| | MDQM9 | 356 | DQ9 | 44 | DQ9 |
| | MDQM10 | 354 | DQ10 | 45 | DQ10 |
| | MDQM11 | 352 | DQ11 | 47 | DQ11 |
| | MDQM12 | 349 | DQ12 | 48 | DQ12 |
| | MDQM13 | 347 | DQ13 | 50 | DQ13 |
| | MDQM14 | 344 | DQ14 | 51 | DQ14 |
| | MDQM15 | 342 | DQ15 | 53 | DQ15 |
| | MAM0 | 317 | A0 | 23 | A0 |
| | MAM1 | 320 | A1 | 24 | A1 |
| | MAM2 | 322 | A2 | 25 | A2 |
| | MAM3 | 328 | A3 | 26 | A3 |
| | MAM4 | 330 | A4 | 29 | A4 |
| | MAM5 | 332 | A5 | 30 | A5 |
| | MAM6 | 331 | A6 | 31 | A6 |
| | MAM7 | 329 | A7 | 32 | A7 |
| | MAM8 | 323 | A8 | 33 | A8 |
| | MAM9 | 321 | A9 | 34 | A9 |
| | MAM10 | 318 | A10 | 22 | A10 |
| | MAM11 | 316 | A11 | 35 | A11 |

| TC | IC6001 / AV DEC&MAIN CPU | | SIGNAL NAME | IC50002 / SDRAM | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 10 | MDQM16 | 292 | DQ16 | 2 | DQ0 |
| | MDQM17 | 295 | DQ17 | 4 | DQ1 |
| | MDQM18 | 297 | DQ18 | 5 | DQ2 |
| | MDQM19 | 299 | DQ19 | 7 | DQ3 |
| | MDQM20 | 302 | DQ20 | 8 | DQ4 |
| | MDQM21 | 304 | DQ21 | 10 | DQ5 |
| | MDQM22 | 308 | DQ22 | 11 | DQ6 |
| | MDQM23 | 310 | DQ23 | 13 | DQ7 |
| | MDQM24 | 309 | DQ24 | 42 | DQ8 |
| | MDQM25 | 305 | DQ25 | 44 | DQ9 |
| | MDQM26 | 303 | DQ26 | 45 | DQ10 |
| | MDQM27 | 301 | DQ27 | 47 | DQ11 |
| | MDQM28 | 298 | DQ28 | 48 | DQ12 |
| | MDQM29 | 296 | DQ29 | 50 | DQ13 |
| | MDQM30 | 293 | DQ30 | 51 | DQ14 |
| | MDQM31 | 291 | DQ31 | 53 | DQ15 |
| | MAM0 | 317 | A0 | 23 | A0 |
| | MAM1 | 320 | A1 | 24 | A1 |
| | MAM2 | 322 | A2 | 25 | A2 |
| | MAM3 | 328 | A3 | 26 | A3 |
| | MAM4 | 330 | A4 | 29 | A4 |
| | MAM5 | 332 | A5 | 30 | A5 |
| | MAM6 | 331 | A6 | 31 | A6 |
| | MAM7 | 329 | A7 | 32 | A7 |
| | MAM8 | 323 | A8 | 33 | A8 |
| | MAM9 | 321 | A9 | 34 | A9 |
| | MAM10 | 318 | A10 | 22 | A10 |
| | MAM11 | 316 | A11 | 35 | A11 |

| TC | IC6001 / AV DEC&MAIN CPU | | SIGNAL NAME | IC6005,IC6006 / W-MEMORY | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 11 | MD0 | 118 | MD0 | 2 | DQ0 |
| | MD1 | 121 | MD1 | 4 | DQ1 |
| | MD2 | 123 | MD2 | 5 | DQ2 |
| | MD3 | 125 | MD3 | 7 | DQ3 |
| | MD4 | 128 | MD4 | 8 | DQ4 |
| | MD5 | 130 | MD5 | 10 | DQ5 |
| | MD6 | 133 | MD6 | 11 | DQ6 |
| | MD7 | 135 | MD7 | 13 | DQ7 |
| | MD8 | 134 | MD8 | 42 | DQ8 |
| | MD9 | 131 | MD9 | 44 | DQ9 |
| | MD10 | 129 | MD10 | 45 | DQ10 |
| | MD11 | 127 | MD11 | 47 | DQ11 |
| | MD12 | 124 | MD12 | 48 | DQ12 |
| | MD13 | 122 | MD13 | 50 | DQ13 |
| | MD14 | 119 | MD14 | 51 | DQ14 |
| | MD15 | 117 | MD15 | 53 | DQ15 |
| | MA0 | 160 | MA0 | 23 | A0 |
| | MA1 | 163 | MA1 | 24 | A1 |
| | MA2 | 165 | MA2 | 25 | A2 |
| | MA3 | 167 | MA3 | 26 | A3 |
| | MA4 | 166 | MA4 | 29 | A4 |
| | MA5 | 164 | MA5 | 30 | A5 |
| | MA6 | 161 | MA6 | 31 | A6 |
| | MA7 | 159 | MA7 | 32 | A7 |
| | MA8 | 156 | MA8 | 33 | A8 |
| | MA9 | 153 | MA9 | 34 | A9 |
| | MA10 | 157 | MA10 | 22 | A10 |
| | MA11 | 151 | MA11 | 35 | A11 |
| | MA12 | 147 | MA12 | 36 | NC |
| | MA13 | 154 | MA13 | 21 | A12 |
| | MA14 | 152 | MA14 | 20 | A13 |

| TC | IC3501 / RTSC | | SIGNAL NAME | IC3502/ SDRAM | |
|---|---|---|---|---|---|
| | Port Name | Pin No | | Pin No | Port Name |
| 12 | MDQ0 | 281 | TR MADQB0 | 2 | DQ0 |
| | MDQ1 | 280 | TR MADQB1 | 4 | DQ1 |
| | MDQ2 | 278 | TR MADQB2 | 5 | DQ2 |
| | MDQ3 | 277 | TR MADQB3 | 7 | DQ3 |
| | MDQ4 | 276 | TR MADQB4 | 8 | DQ4 |
| | MDQ5 | 274 | TR MADQB5 | 10 | DQ5 |
| | MDQ6 | 273 | TR MADQB6 | 11 | DQ6 |
| | MDQ7 | 272 | TR MADQB7 | 13 | DQ7 |
| | MDQ8 | 270 | TR MADQB8 | 42 | DQ8 |
| | MDQ9 | 269 | TR MADQB9 | 44 | DQ9 |
| | MDQ10 | 268 | TR MADQB10 | 45 | DQ10 |
| | MDQ11 | 266 | TR MADQB11 | 47 | DQ11 |
| | MDQ12 | 265 | TR MADQB12 | 48 | DQ12 |
| | MDQ13 | 264 | TR MADQB13 | 50 | DQ13 |
| | MDQ14 | 263 | TR MADQB14 | 51 | DQ14 |
| | MDQ15 | 262 | TR MADQB15 | 53 | DQ15 |
| | MADR0 | 10 | TR MAB0 | 23 | A0 |
| | MADR1 | 9 | TR MAB1 | 24 | A1 |
| | MADR2 | 8 | TR MAB2 | 25 | A2 |
| | MADR3 | 6 | TR MAB3 | 26 | A3 |
| | MADR4 | 5 | TR MAB4 | 29 | A4 |
| | MADR5 | 4 | TR MAB5 | 30 | A5 |
| | MADR6 | 3 | TR MAB6 | 31 | A6 |
| | MADR7 | 2 | TR MAB7 | 32 | A7 |
| | MADR8 | 302 | TR MAB8 | 33 | A8 |
| | MADR9 | 300 | TR MAB9 | 34 | A9 |
| | MADR10 | 299 | TR MAB10 | 22 | A10 |
| | MADR11 | 297 | TR MAB11 | 35 | A11 |
| | MADR12 | 293 | TR MAB12 | 36 | NC |

SA0 - SA25 ADDRESS BUS LINE (TC13, TC14-1, TC15-1, TC17, TC18-1, TC20)

| TC | 13 | | 14-1 | | 15-1 | | 17 | | 18-1 | | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | IC3404 / AVENC | | IC6701 / GLUE | | IC6001 / AVDEC&MAIN CPU | | IC6004 / BUFFER | | IC6003 / LOADER | | IC3501 / RTSC | |
| | Pin No | Port Name | Pin No | Port Name | Pin No | Port Name | Pin No | Port Name | Pin No | Port Name | Pin No | Port Name |
| SA0 | - | - | - | - | 28 | SA0 | - | - | - | - | - | - |
| SA1 | - | - | - | - | 27 | SA1 | 2 | 1A1 | 25 | A0 | - | - |
| SA2 | - | - | - | - | 26 | SA2 | 4 | 1A2 | 24 | A1 | - | - |
| SA3 | - | - | - | - | 25 | SA3 | 6 | 1A3 | 23 | A2 | - | - |
| SA4 | - | - | - | - | 24 | SA4 | 8 | 1A4 | 22 | A3 | - | - |
| SA5 | 186 | HA4 | 163 | ADRL5 | 22 | SA5 | - | - | 21 | A4 | 75 | HADR5 |
| SA6 | 187 | HA5 | 170 | ADRL6 | 20 | SA6 | - | - | 20 | A5 | 76 | HADR6 |
| SA7 | 188 | HA6 | 168 | ADRL7 | 19 | SA7 | - | - | 19 | A6 | 77 | HADR7 |
| SA8 | 189 | HA7 | - | - | 18 | SA8 | - | - | 18 | A7 | 78 | HADR8 |
| SA9 | 191 | HA8 | - | - | 17 | SA9 | - | - | 8 | A8 | 79 | HADR9 |
| SA10 | 192 | HA9 | - | - | 16 | SA10 | - | - | 7 | A9 | 80 | HADR10 |
| SA11 | 194 | HA10 | - | - | 15 | SA11 | - | - | 6 | A10 | 81 | HADR11 |
| SA12 | 195 | HA11 | - | - | 14 | SA12 | - | - | 5 | A11 | 82 | HADR12 |
| SA13 | - | - | - | - | 12 | SA13 | - | - | 4 | A12 | 85 | HADR13 |
| SA14 | - | - | - | - | 11 | SA14 | - | - | 3 | A13 | 86 | HADR14 |
| SA15 | - | - | - | - | 10 | SA15 | - | - | 2 | A14 | 87 | HADR15 |
| SA16 | - | - | - | - | 9 | SA16 | - | - | 1 | A15 | 89 | HADR16 |
| SA17 | - | - | - | - | 8 | SA17 | - | - | 48 | A16 | 90 | HADR17 |
| SA18 | - | - | - | - | 7 | SA18 | - | - | 17 | A17 | 92 | HADR18 |
| SA19 | - | - | - | - | 6 | SA19 | - | - | 16 | A18 | 93 | HADR19 |
| SA20 | - | - | - | - | 3 | SA20 | - | - | - | - | 94 | HADR20 |
| SA21 | - | - | - | - | 2 | SA21 | - | - | - | - | 95 | HADR21 |
| SA22 | - | - | 174 | ADR22 | 1 | SA22 | - | - | - | - | - | - |
| SA23 | - | - | 171 | ADRH0 | 363 | SA23 | - | - | - | - | - | - |
| SA24 | - | - | 172 | ADRH1 | 362 | SA24 | - | - | - | - | - | - |
| SA25 | - | - | 173 | ADRH2 | 361 | SA25 | - | - | - | - | - | - |

SD16 - SD31 DATA BUS LINE (TC14-2, TC15-2, TC18-2 )

| TC | 14-2 | | 15-2 | | 18-2 | |
|---|---|---|---|---|---|---|
| SIGNAL NAME | IC6701 / GLUE | | IC6001 / AVDEC&MAIN CPU | | IC6003 / LOADER | |
| | Pin No | Port Name | Pin No | Port Name | Pin No | Port Name |
| SD16 | 201 | LDTI0 | 67 | SD16 | 29 | I/O0 |
| SD17 | 200 | LDTI1 | 66 | SD17 | 31 | I/O1 |
| SD18 | 199 | LDTI2 | 65 | SD18 | 33 | I/O2 |
| SD19 | 202 | LDTI3 | 64 | SD19 | 35 | I/O3 |
| SD20 | 197 | LDTI4 | 63 | SD20 | 38 | I/O4 |
| SD21 | 196 | LDTI5 | 62 | SD21 | 40 | I/O5 |
| SD22 | 198 | LDTI6 | 61 | SD22 | 42 | I/O6 |
| SD23 | 195 | LDTI7 | 59 | SD23 | 44 | I/O7 |
| SD24 | 194 | LDTI8 | 58 | SD24 | 30 | I/O8 |
| SD25 | 192 | LDTI9 | 57 | SD25 | 32 | I/O9 |
| SD26 | 191 | LDTI10 | 56 | SD26 | 34 | I/O10 |
| SD27 | 189 | LDTI11 | 55 | SD27 | 36 | I/O11 |
| SD28 | 190 | LDTI12 | 54 | SD28 | 39 | I/O12 |
| SD29 | 188 | LDTI13 | 53 | SD29 | 41 | I/O13 |
| SD30 | 187 | LDTI14 | 51 | SD30 | 43 | I/O14 |
| SD31 | 185 | LDTI15 | 50 | SD31 | 45 | I/O15 |

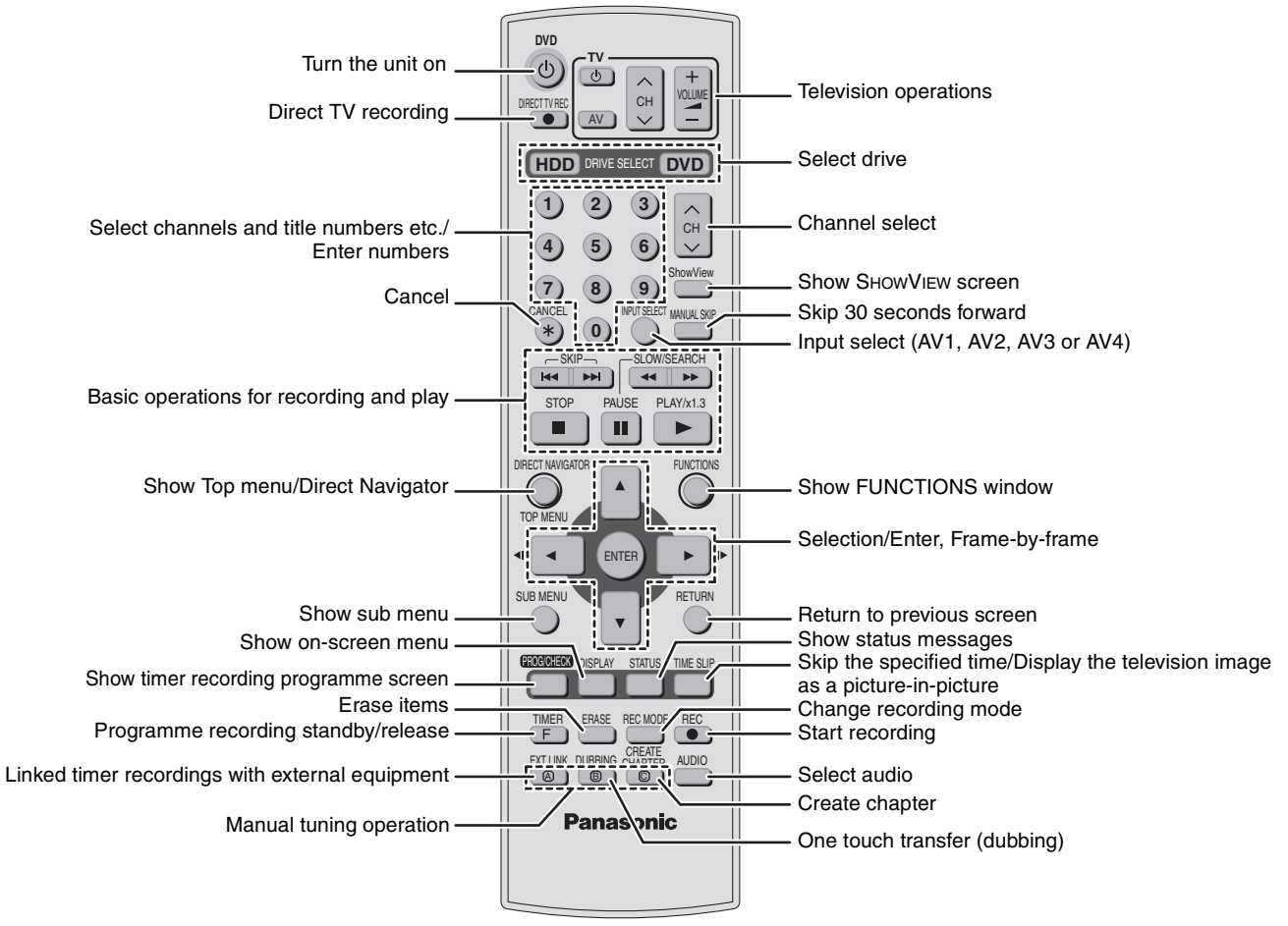
MSD16 - MSD31 DATA BUS LINE (TC19-1, TC21-1,TC22-1 )

| TC | 19-1 | | 21-1 | | 22-1 | |
|---|---|---|---|---|---|---|
| SIGNAL NAME | IC3404 / AVENC&RTSC | | IC3501 / RTSC | | IC6701 / GLUE | |
| | Pin No | Port Name | Pin No | Port Name | Pin No | Port Name |
| MSD16 | 203 | HD0 | 118 | HDAT0 | 12 | LDEV0 |
| MSD17 | 204 | HD1 | 117 | HDAT1 | 13 | LDEV1 |
| MSD18 | 206 | HD2 | 115 | HDAT2 | 11 | LDEV2 |
| MSD19 | 207 | HD3 | 114 | HDAT3 | 10 | LDEV3 |
| MSD20 | 209 | HD4 | 113 | HDAT4 | 7 | LDEV4 |
| MSD21 | 210 | HD5 | 111 | HDAT5 | 8 | LDEV5 |
| MSD22 | 212 | HD6 | 110 | HDAT6 | 9 | LDEV6 |
| MSD23 | 213 | HD7 | 109 | HDAT7 | 14 | LDEV7 |
| MSD24 | 215 | HD8 | 107 | HDAT8 | 2 | LDEV8 |
| MSD25 | 216 | HD9 | 106 | HDAT9 | 4 | LDEV9 |
| MSD26 | 217 | HD10 | 104 | HDAT10 | 3 | LDEV10 |
| MSD27 | 218 | HD11 | 102 | HDAT11 | 208 | LDEV11 |
| MSD28 | 220 | HD12 | 101 | HDAT12 | 207 | LDEV12 |
| MSD29 | 221 | HD13 | 100 | HDAT13 | 6 | LDEV13 |
| MSD30 | 223 | HD14 | 98 | HDAT14 | 205 | LDEV14 |
| MSD31 | 224 | HD15 | 97 | HDAT15 | 203 | LDEV15 |

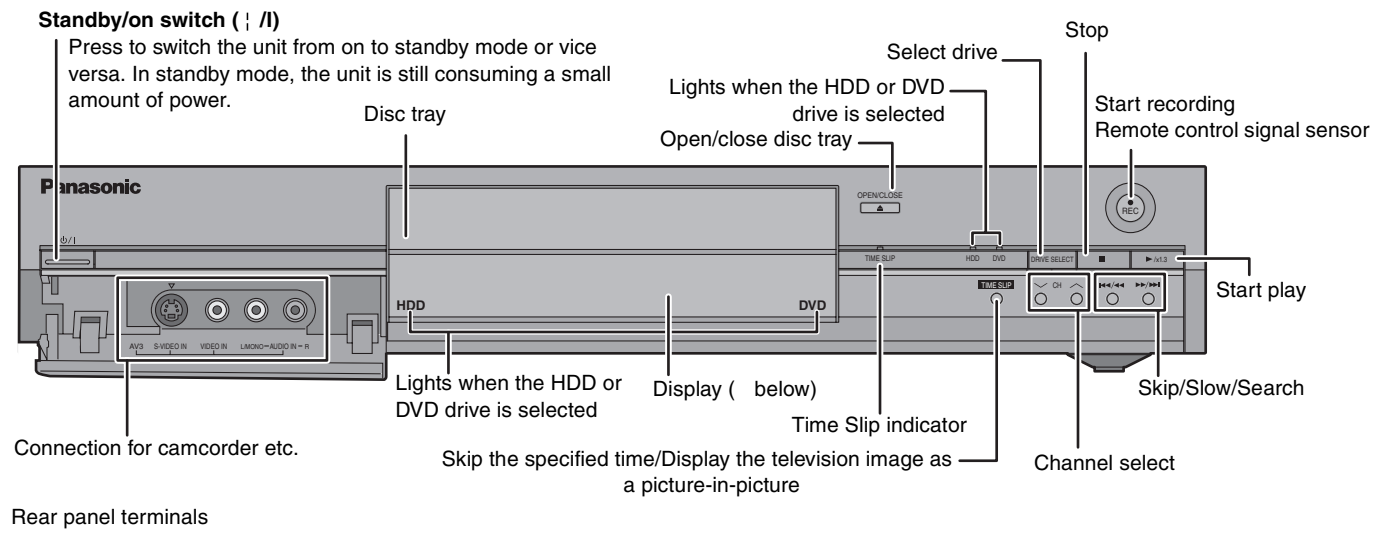
MSA1 - MSA4 ADDRESS BUS LINE (TC16, TC19-2, TC21-2, TC22-2 )

| TC | 16 | | 19-2 | | 21-2 | | 22-2 | |
|---|---|---|---|---|---|---|---|---|
| SIGNAL NAME | IC6004/BUFFER | | IC3404/AVENC | | IC3501/RTSC | | IC6701/GLUE | |
| | Pin No | Port Name | Pin No | Port Name | Pin No | Port Name | Pin No | Port Name |
| MSA1 | 18 | 1Y1 | 181 | HA0 | 68 | HADR1 | 167 | ADRL1 |
| MSA2 | 16 | 1Y2 | 182 | HA1 | 69 | HADR2 | 164 | ADRL2 |
| MSA3 | 14 | 1Y3 | 183 | HA2 | 70 | HADR3 | 165 | ADRL3 |
| MSA4 | 12 | 1Y4 | 184 | HA3 | 71 | HADR4 | 166 | ADRL4 |

## Remote control

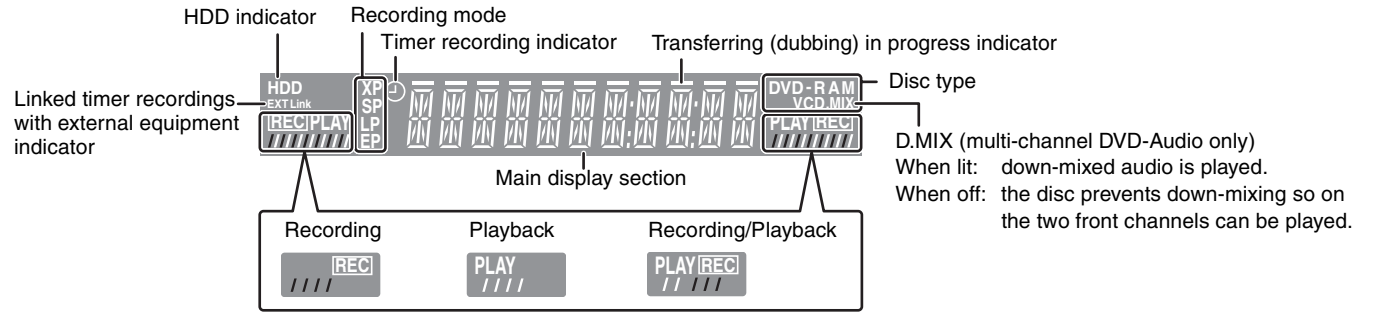



## Main unit




Rear panel terminals

## The unit's display



MAIN P.C.B.

MAIN P.C.B.

:REC SIGNAL :PB SIGNAL

AV4
JK3001
REAR JACK
LINE OUT (L)
LINE OUT (R)
MIX L OUT2
MIX R OUT2

SCART P.C.B.

FROM TIMER SECTION
XTMUTE IC7501- 20
XSCART MUTE L IC7501- 57
QR4002-QR4005 Q4004
MUTE CIRCUIT
QR4012 SCART MUTE OUT
XDMUTE
D4005 Q4006 MUTE
Q4007 MUTE
D4006 Q4008 MUTE
Q4009 MUTE
MIX L OUT1
MIX R OUT1
SCART AUDIO MUTE H
PP7403 PS3903 14
PP7403 PS3903 12
PP7403 PS3903 2
Q3908, QR3909 MUTE CIRCUIT
D3903 Q3910 MUTE
Q3909 MUTE

FROM DIGITAL P.C.B.
P9001 P7402 70
P9001 P7402 58
P9001 P7402 62
MIX R OUT DM
MIX L OUT DM
IC4009

IC4001
(AUDIO SIGNAL PROCESSOR)
DAR AMP
DAL AMP
MIX
AMP

IC3901
(A/V BUFFER AND SWITCH)
EXT.MUTE CTL.

AV2
JK3904
(DECODER/EXT)
AUDIO OUT CH2(R)
AUDIO IN CH2(R)
AUDIO OUT CH1(L)
AUDIO IN CH1(L)

AV4
JK3001
REAR JACK
AUDIO
LINE IN(R)
LINE IN(L)
A4 IN R
A4 IN L

(Lch)
(Rch)
INPUT SELECTOR SW
BUFFER
L CH OUT
R CH OUT
A ADC L
A ADC R
P7402 P9001 50
P7402 P9001 48
TO DIGITAL P.C.B.
L3 IN R
L3 IN L
L3 IN(R)
L3 IN(L)
PP7403 PS3903 4
PP7403 PS3903 6

R CH OUT
L CH OUT
BUF
LPF
Lch
AMP
SW3
SW2
SW1
(R CH)
(L CH)
MIX L OUT1
MIX R OUT1

AV3
JK7501
FRONT JACK
AUDIO
FRONT LINE (L)
FRONT LINE (R)
L2 IN(L)
L2 IN(R)
L2 IN L
L2 IN R

E85HEB
QR7406,7407
MUTE
RFC A MUTE H IC7501- 52
FROM TIMER SEC.
RFC A OUT
RF OUT
DU7402
TUNER
AUDIO IN

IIC BUS LOGIC
IIC CLK IC7501- 28
IIC DATA IC7501- 29
FROM TIMER SECTION

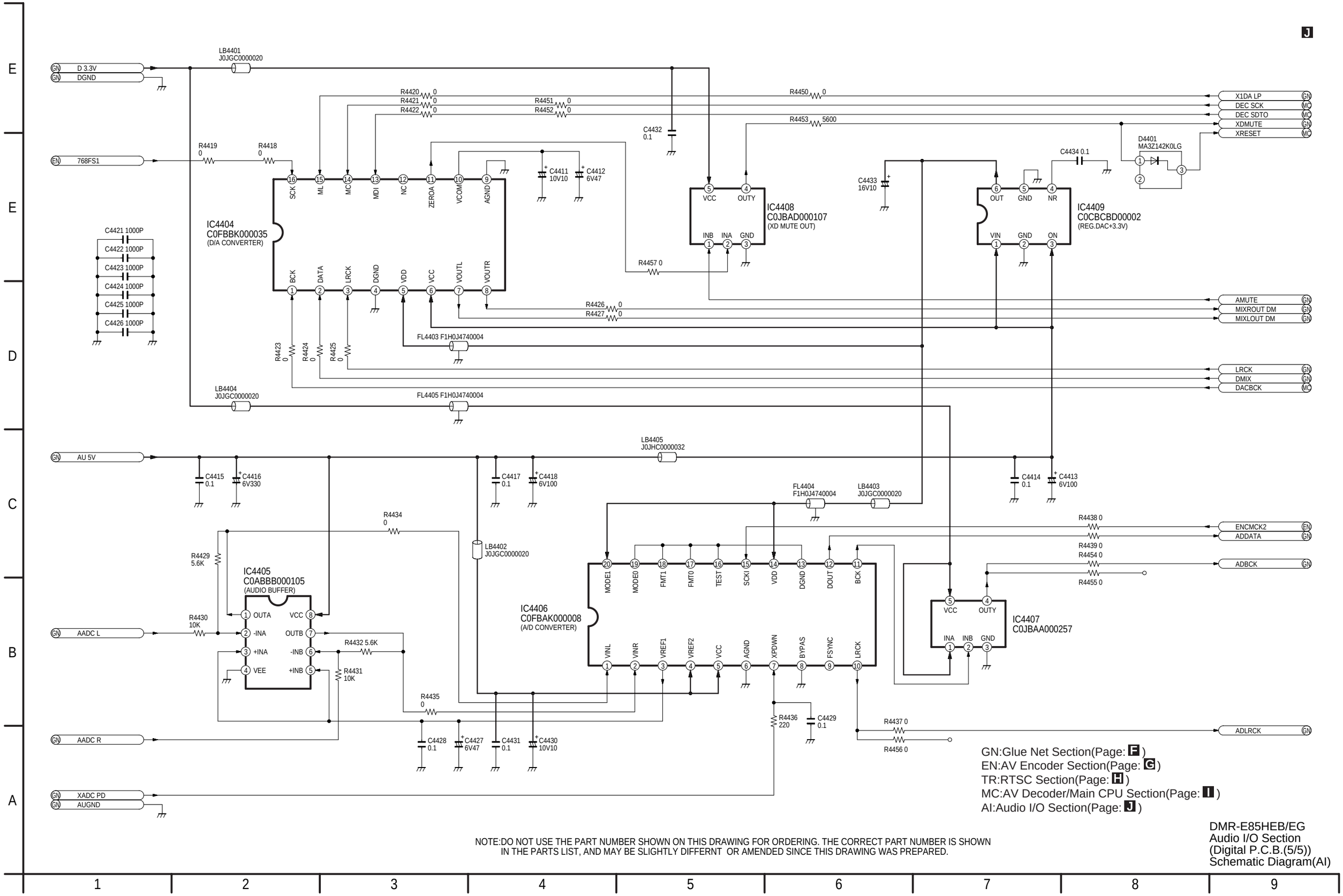
AV1
JK3905
(TV)
AUDIO OUT CH2(R)
AUDIO IN CH2(R)
AUDIO OUT CH1(L)
AUDIO IN CH1(L)

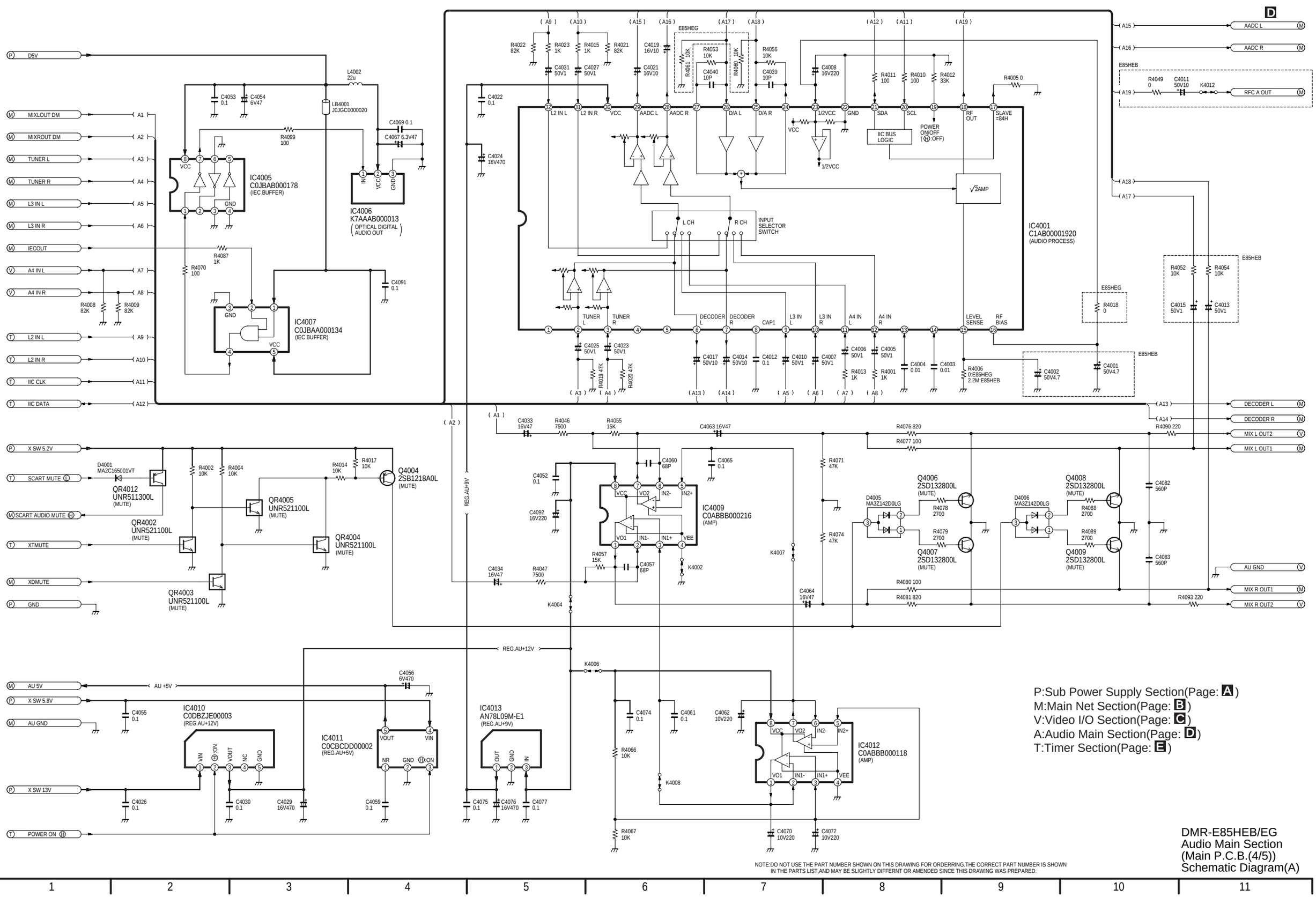
IC7301
(NICAM/A2)
AUDIO OUT
SIF OUT
PK7701 PK7301 3
PK7701 PK7301 1
MONO IN
SIF
R OUT
L OUT
PK7302 PK7702 4
PK7302 PK7702 6
TUNER R
TUNER L
DECODER R
DECODER L
PP7403 PS3903 8
PP7403 PS3903 10
R CH IN
L CH IN

NICAM DECODER P.C.B.

FROM DIGITAL P.C.B.
P9001 P7402 72
IEC OUT
D+5V
IC4007
IC4005
IC4006
OPTICAL
(DIGITAL AUDIO OUT)

DMR-E85HEB/EG
Analog Audio Block Diagram


J
LB4401
J0JGC0000020
D 3.3V
DGND
768FS1
R4419 0
R4418 0
R4420 0
R4421 0
R4422 0
R4451 0
R4452 0
R4450 0
R4453 5600
C4432 0.1
X1DA LP
DEC SCK
DEC SDTO
XDMUTE
XRESET
D4401
MA3Z142K0LG
C4434 0.1
C4433 16V10
IC4404
C0FBBK000035
(D/A CONVERTER)
SCK ML MC MDI NC ZEROA VCOM AGND
C4411 10V10
C4412 6V47
BCK DATA LRCK DGND VDD VCC VOUTL VOUTR
C4421 1000P
C4422 1000P
C4423 1000P
C4424 1000P
C4425 1000P
C4426 1000P
IC4408
C0JBAD000107
(XD MUTE OUT)
VCC OUTY INB INA GND
IC4409
C0CBCBD00002
(REG.DAC+3.3V)
OUT GND NR VIN GND ON
R4457 0
R4426 0
R4427 0
AMUTE
MIXROUT DM
MIXLOUT DM
FL4403 F1H0J4740004
R4423 0
R4424 0
R4425 0
LRCK
DMIX
DACBCK
LB4404
J0JGC0000020
FL4405 F1H0J4740004
LB4405
J0JHC0000032
AU 5V
C4415 0.1
C4416 6V330
C4417 0.1
C4418 6V100
C4414 0.1
C4413 6V100
FL4404
F1H0J4740004
LB4403
J0JGC0000020
R4434 0
R4438 0
ENCMCK2
ADDATA
R4439 0
R4454 0
ADBCK
R4455 0
LB4402
J0JGC0000020
R4429 5.6K
IC4405
C0ABBB000105
(AUDIO BUFFER)
OUTA -INA +INA VEE VCC OUTB -INB +INB
R4430 10K
AADC L
R4432 5.6K
R4431 10K
IC4406
C0FBAK000008
(A/D CONVERTER)
MODE1 MODE0 FMT1 FMT0 TEST SCKI VDD DGND DOUT BCK
VINL VINR VREF1 VREF2 VCC AGND XPDWN BYPAS FSYNC LRCK
IC4407
C0JBAA000257
VCC OUTY INA INB GND
R4435 0
R4436 220
C4429 0.1
R4437 0
R4456 0
ADLRCK
AADC R
C4428 0.1
C4427 6V47
C4431 0.1
C4430 10V10
XADC PD
AUGND
GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E85HEB/EG
Audio I/O Section
(Digital P.C.B.(5/5))
Schematic Diagram(AI)


D5V
MIXLOUT DM
MIXROUT DM
TUNER L
TUNER R
L3 IN L
L3 IN R
IECOUT
A4 IN L
A4 IN R
L2 IN L
L2 IN R
IIC CLK
IIC DATA
L4002 22u
LB4001 J0JGC0000020
C4053 0.1
C4054 6V47
C4069 0.1
C4067 6.3V47
R4099 100
IC4005 C0JBAB000178 (IEC BUFFER)
IC4006 K7AAAB000013 (OPTICAL DIGITAL AUDIO OUT)
R4070 100
R4087 1K
R4008 82K
R4009 82K
C4091 0.1
IC4007 C0JBAA000134 (IEC BUFFER)
IC4001 C1AB00001920 (AUDIO PROCESS)
L2 IN L
L2 IN R
VCC
AADC L
AADC R
D/A L
D/A R
1/2VCC
GND
SDA
SCL
RF OUT
SLAVE =84H
IIC BUS LOGIC
POWER ON/OFF (H:OFF)
√2AMP
L CH
R CH
INPUT SELECTOR SWITCH
TUNER L
TUNER R
DECODER L
DECODER R
CAP1
L3 IN L
L3 IN R
A4 IN L
A4 IN R
LEVEL SENSE
RF BIAS
E85HEG
E85HEB
AADC L
AADC R
RFC A OUT
R4022 82K
R4023 1K
R4015 1K
R4021 82K
C4031 50V1
C4027 50V1
C4019 16V10
C4021 16V10
R4061 10K
R4053 10K
C4040 10P
R4060 10K
R4056 10K
C4039 10P
C4008 16V220
R4011 100
R4010 100
R4012 33K
R4005 0
R4049 0
C4011 50V10
K4012
C4022 0.1
C4024 16V470
C4025 50V1
C4023 50V1
R4019 47K
R4020 47K
C4017 50V10
C4014 50V10
C4012 0.1
C4010 50V1
C4007 50V1
C4006 50V1
R4013 1K
C4005 50V1
R4001 1K
C4004 0.01
C4003 0.01
R4006 0:E85HEG 2.2M:E85HEB
C4002 50V4.7
C4001 50V4.7
R4018 0
R4052 10K
R4054 10K
C4015 50V1
C4013 50V1
D4001 MA2C165001VT
QR4012 UNR511300L (MUTE)
QR4002 UNR521100L (MUTE)
QR4005 UNR521100L (MUTE)
QR4004 UNR521100L (MUTE)
QR4003 UNR521100L (MUTE)
R4002 10K
R4004 10K
R4014 10K
R4017 10K
Q4004 2SB1218A0L (MUTE)
SCART MUTE
SCART AUDIO MUTE
XTMUTE
XDMUTE
GND
X SW 5.2V
REG.AU+9V
REG.AU+12V
C4033 16V47
R4046 7500
R4055 15K
C4063 16V47
R4076 820
R4077 100
R4090 220
C4052 0.1
C4092 16V220
C4060 68P
C4065 0.1
IC4009 C0ABBB000216 (AMP)
R4057 15K
C4057 68P
K4002
K4004
K4007
C4034 16V47
R4047 7500
R4071 47K
R4074 47K
C4064 16V47
Q4006 2SD132800L (MUTE)
Q4007 2SD132800L (MUTE)
Q4008 2SD132800L (MUTE)
Q4009 2SD132800L (MUTE)
D4005 MA3Z142D0LG
D4006 MA3Z142D0LG
R4078 2700
R4079 2700
R4088 2700
R4089 2700
C4082 560P
C4083 560P
R4080 100
R4081 820
R4093 220
DECODER L
DECODER R
MIX L OUT2
MIX L OUT1
AU GND
MIX R OUT1
MIX R OUT2
AU 5V
AU +5V
X SW 5.8V
AU GND
X SW 13V
POWER ON
C4056 6V470
C4055 0.1
IC4010 C0DBZJE00003 (REG.AU+12V)
C4026 0.1
C4030 0.1
C4029 16V470
IC4011 C0CBCDD00002 (REG.AU+5V)
C4059 0.1
IC4013 AN78L09M-E1 (REG.AU+9V)
C4075 0.1
C4076 16V470
C4077 0.1
K4006
K4008
C4074 0.1
C4061 0.1
C4062 10V220
R4066 10K
R4067 10K
IC4012 C0ABBB000118 (AMP)
C4070 10V220
C4072 10V220
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E85HEB/EG
Audio Main Section
(Main P.C.B.(4/5))
Schematic Diagram(A)

MAIN P.C.B.

MAIN P.C.B.

:REC SIGNAL
:PB SIGNAL

IC3003
(VIDEO BUFFER)

IC3002
(SELECTOR SWITCH)

IC3001
(VIDEO PROCESSOR)

SCART P.C.B.

IC3901
(BUFFER AND SWITCH)

AV4
JK3001
REAR JACK

AV3
JK7501
FRONT JACK

DU7402
TUNER

AV1
JK3905
(TV)

AV2
JK3904
(DECODER/EXT)

JK3901
COMPONENT VIDEO OUT
( NTSC:480P/480I
PAL:576P/576I )

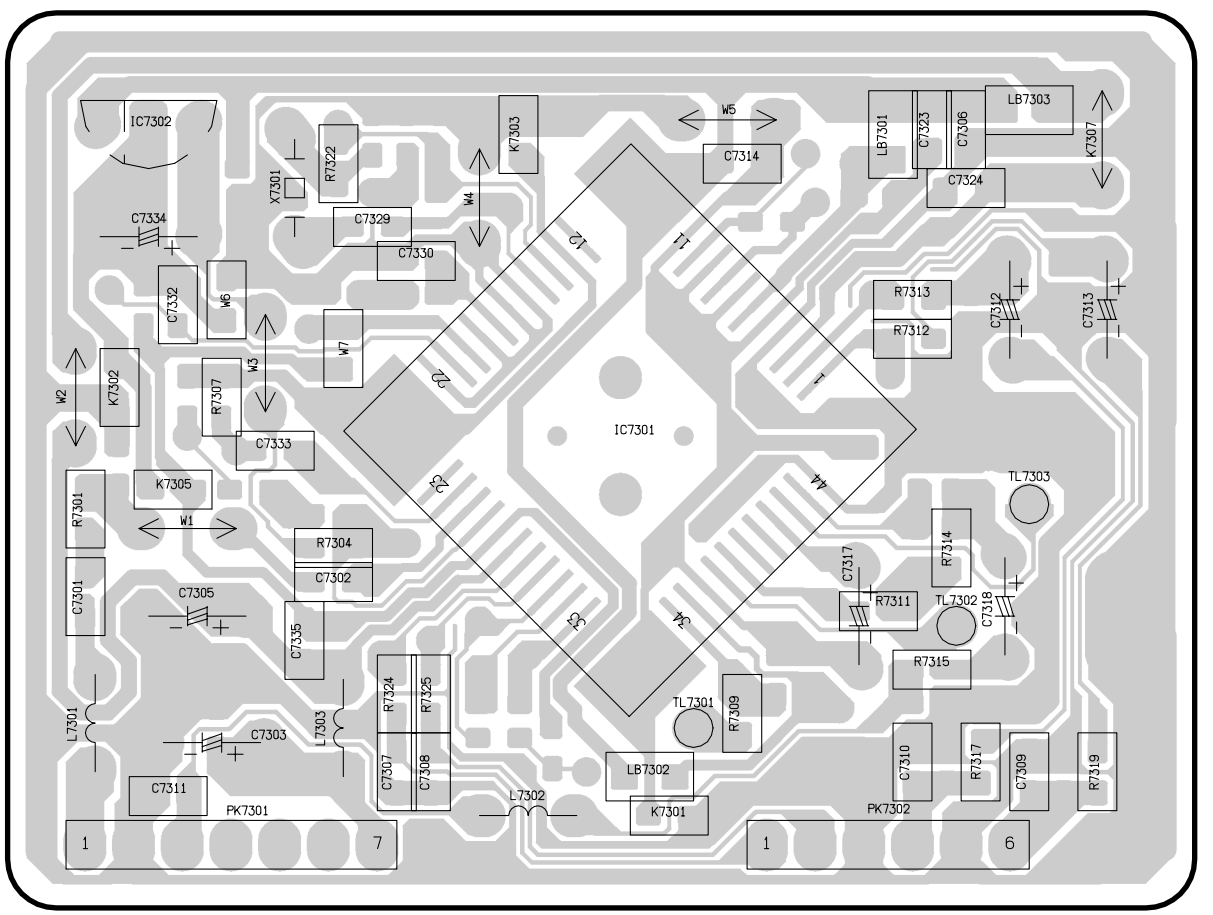
FROM DIGITAL P.C.B.

TO DIGITAL P.C.B.

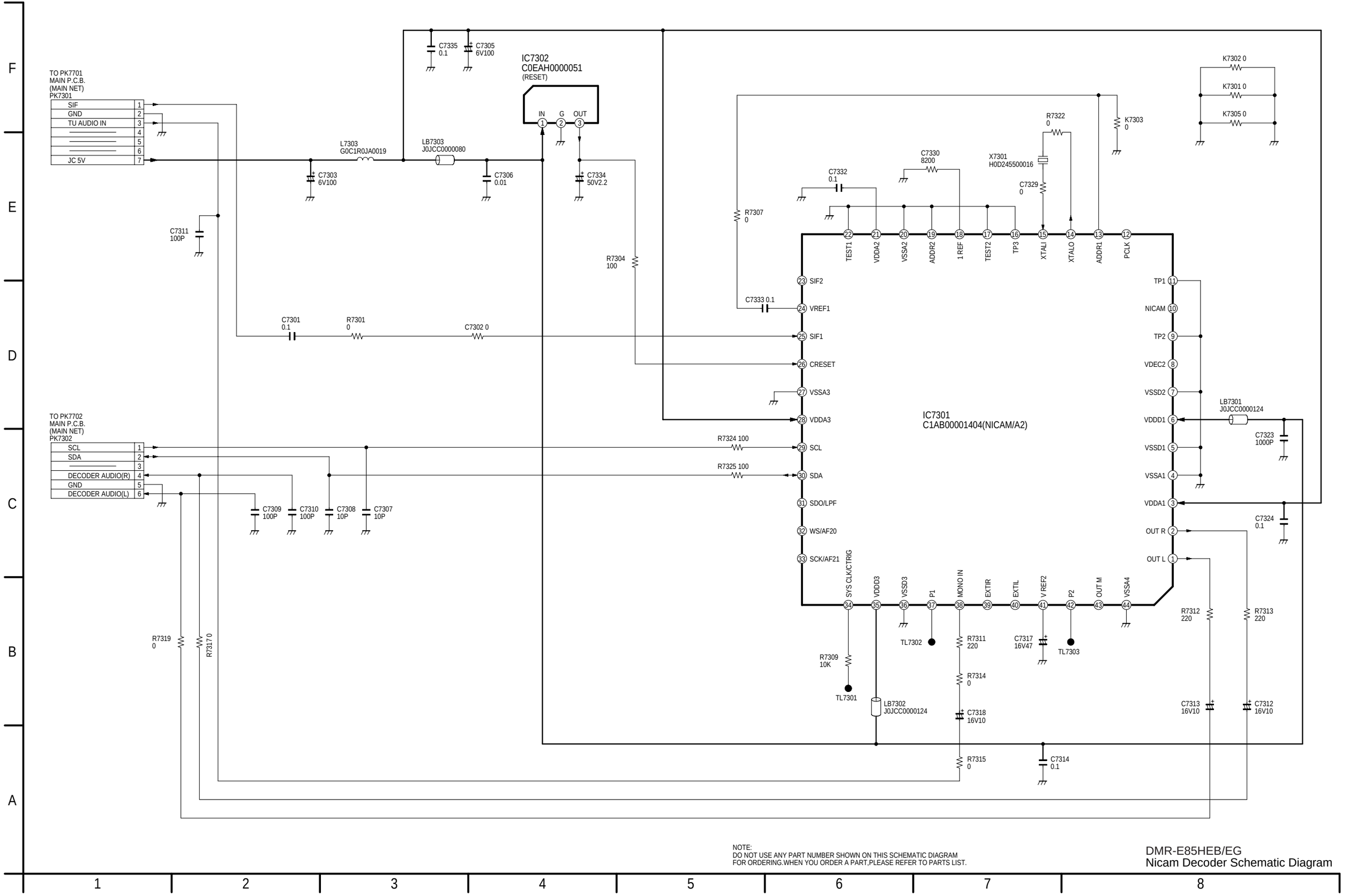
FROM TIMER SECTION

DMR-E85HEB/EG
Analog Video Block Diagram

## Nicam Decoder P.C.B.




DMR-E85HEB/EG
Nicam Decoder P.C.B. (VEP07A51A)




NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E85HEB/EG
Nicam Decoder Schematic Diagram

## DIGITAL P.C.B.

**Integrated Circuit**

| | | |
|---|---|---|
| IC3401 | E-6 | C |
| IC3402 | D-6 | C |
| IC3404 | D-5 | C |
| IC3406 | E-2 | F |
| IC3408 | D-3 | C |
| IC3409 | E-1 | F |
| IC3501 | D-5 | F |
| IC3502 | D-2 | C |
| IC4404 | E-6 | F |
| IC4405 | F-5 | F |
| IC4406 | E-6 | F |
| IC4407 | D-6 | F |
| IC4408 | E-7 | F |
| IC4409 | E-7 | F |
| IC6001 | C-3 | F |
| IC6002 | C-3 | F |
| IC6003 | C-6 | C |
| IC6004 | B-3 | F |
| IC6005 | C-6 | C |
| IC6006 | C-5 | C |
| IC6701 | B-3 | C |
| IC6703 | C-1 | C |
| IC50001 | E-4 | F |
| IC50002 | E-3 | F |

**Transistor**

| | | |
|---|---|---|
| Q6001 | D-4 | C |
| Q6002 | D-4 | C |
| Q6701 | C-2 | C |
| Q6702 | C-2 | C |
| Q6703 | C-2 | C |
| Q6704 | C-2 | C |
| Q6705 | C-2 | C |
| Q50001 | E-4 | C |
| Q50002 | E-4 | C |
| Q50003 | E-4 | C |
| Q50004 | E-4 | C |
| Q50005 | E-4 | C |

**Transistor-resistor**

| | | |
|---|---|---|
| QR3502 | D-6 | F |
| QR3503 | D-6 | F |

**Test Point**

| | | |
|---|---|---|
| CKA1 | C-2 | F |
| CKA2 | B-2 | F |
| CKA3 | B-2 | F |
| CKA4 | B-2 | F |
| CKA5 | B-3 | F |
| CKA7 | B-2 | F |
| CKA8 | B-3 | F |
| CKA9 | B-2 | F |
| CKA10 | B-3 | F |
| CKA11 | B-2 | F |
| CKA12 | B-3 | F |
| CKA13 | D-4 | F |
| CKA14 | D-4 | F |
| CKA18 | C-3 | F |
| CKA21 | C-2 | F |
| CKA23 | C-2 | F |
| CKA24 | C-3 | F |
| CKA25 | C-2 | F |
| CKA26 | C-3 | F |
| CKA27 | C-3 | F |
| CKA28 | C-2 | F |
| CKA30 | C-2 | F |
| CKA31 | D-2 | F |
| CKA32 | D-2 | F |
| CKA33 | D-2 | F |
| CKA34 | D-2 | F |
| CKA36 | E-1 | F |
| CKA37 | A-2 | F |
| CKA38 | A-2 | F |
| CKA39 | A-2 | F |
| CKA40 | A-2 | F |
| CKA42 | D-5 | F |
| CKA43 | D-5 | F |
| CKA44 | B-2 | F |
| CKA45 | B-2 | F |
| CKA46 | B-2 | F |
| CKA47 | B-2 | F |
| CKA48 | C-2 | F |

| | | |
|---|---|---|
| CKA49 | C-2 | F |
| CKA51 | C-2 | F |
| CKA52 | C-2 | F |
| CKA53 | C-2 | F |
| CKA54 | E-1 | F |
| CKA56 | C-2 | F |
| CKA58 | C-2 | F |
| CKA59 | C-2 | F |
| CKA60 | C-2 | F |
| CKA61 | C-2 | F |
| CKA62 | C-2 | F |
| CKA63 | C-2 | F |
| CKA65 | D-2 | F |
| CKA66 | D-2 | F |
| CKA67 | D-2 | F |
| CKA68 | D-2 | F |
| CKA69 | D-2 | F |
| CKA70 | B-1 | F |
| CKC19 | B-3 | F |
| CKC20 | C-3 | F |
| CKC22 | A-2 | F |
| CKC24 | B-3 | F |
| CKC25 | C-3 | F |
| CKC27 | A-2 | F |
| CKC29 | C-4 | F |
| CKC30 | B-3 | F |
| CKC32 | C-2 | F |
| CKC33 | D-4 | F |
| CKC35 | A-2 | F |
| CKC36 | B-4 | F |
| CKC37 | A-2 | F |
| CKC38 | A-2 | F |
| CKC39 | A-2 | F |
| CKC41 | B-4 | F |
| CKC42 | B-4 | F |
| CKC43 | B-4 | F |
| CKC44 | A-2 | F |
| CKC45 | A-2 | F |
| CKC46 | B-2 | F |
| CKC47 | B-4 | F |
| CKC48 | B-3 | F |
| CKC49 | B-4 | F |
| CKC51 | B-4 | F |
| CKC52 | B-4 | F |
| CKC53 | B-2 | F |
| CKC54 | B-2 | F |
| CKC55 | A-2 | F |
| CKC56 | A-2 | F |
| CKC57 | B-2 | F |
| CKC58 | B-2 | F |
| CKC59 | B-2 | F |
| CKC61 | B-2 | F |
| CKC62 | E-1 | F |
| CKC63 | B-2 | F |
| CKC64 | E-1 | F |
| CKC65 | E-1 | F |
| CKC66 | E-1 | F |
| CKC67 | F-1 | F |
| CKC68 | E-1 | F |
| CKC69 | E-1 | F |
| CKC88 | A-1 | F |
| CKC93 | C-1 | F |
| CKC94 | C-1 | F |
| CKC95 | C-1 | F |
| CKC96 | C-1 | F |
| CKC97 | C-1 | F |
| CKC98 | C-1 | F |
| CKC99 | C-1 | F |
| CKC100 | C-1 | F |
| CKC102 | C-1 | F |
| CKC103 | C-1 | F |
| CKC105 | C-1 | F |
| CKC106 | C-1 | F |
| CKC108 | D-1 | F |
| CKC109 | D-1 | F |
| CKC112 | D-1 | F |
| CKC113 | D-1 | F |
| CKC114 | E-1 | F |
| CKC115 | D-2 | F |
| CKC116 | E-1 | F |

| | | |
|---|---|---|
| CKC117 | D-2 | F |
| CKC118 | E-1 | F |
| CKC119 | D-2 | F |
| CKC121 | D-2 | F |
| CKC122 | E-1 | F |
| CKC123 | D-1 | F |
| CKC124 | D-1 | F |
| CKC125 | D-1 | F |
| CKC126 | D-1 | F |
| CKC127 | D-1 | F |
| CKC128 | D-1 | F |
| CKC129 | D-1 | F |
| CKC131 | D-1 | F |
| CKC132 | E-1 | F |
| CKC133 | E-1 | F |
| CKC134 | E-1 | F |
| CKC135 | E-1 | F |
| CKC136 | E-1 | F |
| CKC137 | E-1 | F |
| CKC138 | E-1 | F |
| CKC139 | E-1 | F |
| CKF1 | C-6 | F |
| CKF3 | C-7 | F |
| CKF4 | C-7 | F |
| CKF5 | C-7 | F |
| CKF6 | C-7 | F |
| CKF8 | C-7 | F |
| CKF10 | C-7 | F |
| CKF12 | C-7 | F |
| CKF14 | D-6 | F |
| CKF16 | C-7 | F |
| CKF18 | C-7 | F |
| CKF20 | C-7 | F |
| CKF23 | D-7 | F |
| CKF24 | D-7 | F |
| CKF25 | D-7 | F |
| CKF26 | D-7 | F |
| CKF27 | D-7 | F |
| CKF28 | D-7 | F |
| CKF29 | D-7 | F |
| CKF30 | D-7 | F |
| CKF31 | D-7 | F |
| CKF32 | D-7 | F |
| CKF33 | D-7 | F |
| CKF34 | D-7 | F |
| CKF35 | D-7 | F |
| CKF36 | D-7 | F |
| CKF37 | E-7 | F |
| CKF38 | E-7 | F |
| CKF40 | D-6 | F |
| CKG3 | E-5 | F |
| CKG5 | E-5 | F |
| CKG7 | E-5 | F |
| CKG9 | E-5 | F |
| CKG11 | E-5 | F |
| CKG13 | E-5 | F |
| CKG14 | E-5 | F |
| CKH1 | B-2 | C |
| CKH2 | B-2 | C |
| CKH5 | B-2 | C |
| CKH6 | B-2 | C |
| CKJ1 | E-5 | C |
| CKJ2 | E-5 | C |
| CKJ5 | E-5 | C |
| CKJ6 | E-5 | C |
| CKJ9 | E-4 | C |
| CKJ10 | E-4 | C |
| CKJ13 | E-4 | C |
| CKJ15 | E-4 | C |
| CKJ18 | E-4 | C |
| CKJ19 | E-4 | C |
| CKJ21 | E-4 | C |
| CKJ22 | E-4 | C |
| CKJ23 | E-4 | C |
| CKJ25 | E-4 | C |
| CKJ26 | E-4 | C |
| CKJ27 | E-4 | C |
| CKJ29 | E-4 | C |
| CKJ30 | E-4 | C |
| CKJ31 | E-4 | C |

| | | |
|---|---|---|
| CKJ33 | E-3 | C |
| CKJ34 | E-3 | C |
| CKJ35 | E-3 | C |
| CKJ37 | E-3 | C |
| CKJ38 | E-3 | C |
| CKJ39 | E-3 | C |
| CKJ41 | E-3 | C |
| CKJ42 | E-3 | C |
| CKJ45 | E-3 | C |
| CKJ47 | E-4 | C |
| CKJ48 | E-3 | C |
| CKJ50 | E-3 | C |
| CKJ52 | E-3 | C |
| CKJ58 | E-2 | C |
| CKJ62 | E-2 | C |
| CKJ65 | D-2 | C |
| CKJ66 | E-2 | C |
| CKJ68 | E-2 | C |
| CKJ69 | D-2 | C |
| CKJ70 | F-2 | C |
| CKJ72 | F-2 | C |
| CKJ74 | E-2 | C |
| CKJ75 | F-5 | C |
| CKJ78 | E-2 | C |
| CKJ79 | E-3 | C |
| CKJ81 | E-3 | C |
| CKJ82 | E-3 | C |
| CKJ83 | E-7 | C |
| CKJ94 | E-3 | C |
| CL3401 | E-6 | C |
| CL3402 | E-5 | C |
| CL3403 | F-6 | C |
| CL3404 | F-6 | C |
| CL3405 | F-6 | C |
| CL3406 | F-6 | C |
| CL3407 | E-6 | C |
| CL3408 | E-5 | C |
| CL3409 | E-5 | C |
| CL3410 | F-6 | C |
| CL3426 | D-5 | C |
| CL3427 | D-5 | C |
| CL3428 | E-5 | C |
| CL3429 | D-4 | C |
| CL3430 | D-5 | C |
| CL3431 | D-5 | C |
| CL3432 | D-5 | C |
| CL6001 | B-3 | F |
| CL6002 | D-3 | F |
| CL6003 | B-4 | F |
| CL6004 | D-3 | F |
| CL6005 | D-3 | F |
| CL6006 | D-3 | F |
| CL6007 | D-3 | F |
| CL6701 | A-2 | C |
| CL6702 | B-4 | C |
| CL6703 | B-4 | C |
| CL6704 | B-4 | C |
| CL6705 | B-4 | C |
| CL6706 | C-3 | C |
| CL6707 | C-3 | C |
| CL6708 | C-3 | C |
| CL6709 | C-3 | C |
| CL6710 | C-4 | C |
| CL6711 | A-3 | C |
| CL6712 | C-3 | C |
| CL6713 | C-4 | C |
| CL6714 | C-3 | C |
| CL6715 | C-4 | C |
| CL6717 | B-4 | C |
| CL6718 | A-3 | C |
| CL6719 | A-3 | C |
| CL6720 | A-3 | C |
| CL6721 | A-3 | C |
| CL6722 | B-2 | C |
| CL6723 | B-3 | C |
| CL6724 | B-2 | C |
| CL6725 | B-3 | C |
| CL6726 | B-3 | C |
| CL6727 | B-2 | C |
| CL6728 | B-2 | C |

| | | |
|---|---|---|
| CL6729 | B-2 | C |
| CL6730 | B-2 | C |
| CL6731 | B-2 | C |
| CL6732 | B-1 | C |
| CL6733 | B-2 | C |
| CL6734 | B-2 | C |
| CL6735 | B-2 | C |
| CL6736 | B-2 | C |
| CL6737 | B-2 | C |
| CL6738 | B-2 | C |
| CL6744 | B-2 | C |
| CL6745 | B-2 | C |
| CL6746 | B-2 | C |
| CL6747 | B-2 | C |
| CL6748 | A-3 | C |
| CL6749 | A-3 | C |
| CL9006 | A-3 | C |
| CL9019 | A-3 | C |
| CL9022 | A-3 | C |
| CL9023 | A-3 | C |
| CL9024 | A-3 | C |
| CL9025 | A-3 | C |
| CL9028 | A-3 | C |
| CL9029 | A-4 | C |
| CL37001 | C-6 | F |
| CL37002 | C-6 | F |
| CL37003 | C-6 | F |
| CL37004 | C-6 | F |
| CL37005 | C-6 | F |
| CL37006 | C-6 | F |
| CL37007 | B-6 | F |
| CL37008 | B-6 | F |
| CL37009 | B-6 | F |
| CL37010 | B-6 | F |
| CL37011 | C-6 | F |
| CL37012 | C-6 | F |
| CL37013 | C-6 | F |
| CL50001 | D-3 | F |
| CL50005 | B-3 | F |
| CL50006 | B-3 | F |
| CL50007 | B-4 | F |
| CL50008 | D-3 | F |
| CL50009 | D-3 | F |
| TL6001 | A-5 | F |
| TL6002 | A-5 | F |
| TL6003 | A-5 | F |
| TL6004 | B-6 | F |
| TL6005 | B-6 | F |
| TL6006 | B-6 | F |

**Connector**

| | | |
|---|---|---|
| FP3501 | D-7 | F |
| P6002 | B-4 | F |
| P9001 | E-3 | C |

**Diode**

| | | |
|---|---|---|
| D3401 | E-5 | C |
| D3402 | E-6 | C |
| D4401 | E-7 | F |

**Crystal Osillator**

| | | |
|---|---|---|
| X3401 | E-2 | F |
| X3501 | D-5 | F |

**Coil**

| | | |
|---|---|---|
| LB3404 | D-7 | C |
| LB3405 | C-6 | C |
| LB3408 | C-3 | C |
| LB3409 | D-3 | C |
| LB4401 | E-7 | F |
| LB4402 | E-6 | F |
| LB4403 | E-7 | F |
| LB4404 | D-5 | F |
| LB4405 | E-6 | F |
| LB6001 | C-5 | C |
| LB6002 | B-6 | C |
| LB6003 | C-4 | C |
| LB6004 | C-5 | C |
| LB9001 | E-4 | C |
| LB9002 | E-4 | C |
| LB9006 | E-3 | C |
| LB9007 | E-2 | C |
| LB9008 | F-2 | C |
| LB9009 | F-2 | C |

| | | |
|---|---|---|
| LB50001 | F-5 | C |
| LB50002 | E-4 | F |
| LB50003 | D-3 | F |
| LB50004 | D-3 | F |
| LB50005 | E-2 | F |

**Filter**

| | | |
|---|---|---|
| FL3401 | F-5 | C |
| FL3402 | E-6 | C |
| FL3404 | E-5 | C |
| FL3406 | E-6 | C |
| FL3407 | E-6 | C |
| FL3409 | E-7 | C |
| FL3410 | D-7 | C |
| FL3411 | C-6 | C |
| FL3412 | E-2 | F |
| FL3414 | D-5 | C |
| FL3415 | D-5 | C |
| FL3416 | D-5 | C |
| FL3417 | C-5 | C |
| FL3418 | D-4 | C |
| FL3419 | C-5 | C |
| FL3420 | D-4 | C |
| FL3421 | D-6 | C |
| FL3422 | E-5 | C |
| FL3423 | E-5 | C |
| FL3424 | D-4 | C |
| FL3425 | D-4 | C |
| FL3426 | D-5 | C |
| FL3429 | E-2 | F |
| FL3431 | E-2 | F |
| FL3433 | E-1 | F |
| FL3434 | C-3 | C |
| FL3435 | D-3 | C |
| FL3501 | E-1 | C |
| FL3502 | C-1 | C |
| FL3505 | C-5 | F |
| FL3506 | C-5 | F |
| FL3507 | D-5 | F |
| FL3508 | C-6 | F |
| FL3509 | D-6 | F |
| FL3510 | D-5 | F |
| FL3511 | D-5 | F |
| FL3512 | D-6 | F |
| FL3513 | D-6 | F |
| FL3514 | C-5 | F |
| FL3515 | C-6 | F |
| FL3516 | D-6 | F |
| FL4403 | E-7 | F |
| FL4404 | E-6 | F |
| FL4405 | D-5 | F |
| FL6001 | C-6 | C |
| FL6002 | B-3 | F |
| FL6003 | D-3 | F |
| FL6004 | D-4 | F |
| FL6005 | D-4 | F |
| FL6006 | C-4 | F |
| FL6007 | C-4 | C |
| FL6008 | D-4 | F |
| FL6009 | C-4 | F |
| FL6010 | C-4 | F |
| FL6011 | C-4 | F |
| FL6012 | D-4 | F |
| FL6013 | C-4 | F |
| FL6014 | D-4 | F |
| FL6015 | C-4 | F |
| FL6016 | D-4 | F |
| FL6017 | B-4 | F |
| FL6018 | C-5 | C |
| FL6020 | B-4 | F |
| FL6021 | D-3 | F |
| FL6022 | B-5 | C |
| FL6023 | B-6 | C |
| FL6701 | B-4 | C |
| FL6702 | C-4 | C |
| FL6703 | C-1 | C |
| FL6704 | E-2 | F |
| FL6705 | D-6 | F |
| FL50001 | E-4 | F |
| FL50002 | D-3 | F |
| FL50003 | D-3 | F |
| FL50004 | D-3 | F |
| FL50005 | C-3 | F |

**Capacitor**

| | | |
|---|---|---|
| C3401 | E-2 | F |
| C3402 | E-6 | C |
| C3403 | F-6 | C |
| C3404 | E-5 | C |
| C3405 | E-5 | C |
| C3406 | F-6 | C |
| C3407 | E-2 | F |
| C3408 | E-2 | F |
| C3410 | F-6 | C |
| C3411 | E-6 | C |
| C3417 | F-5 | C |
| C3418 | F-5 | C |
| C3419 | E-5 | C |
| C3420 | E-5 | C |
| C3421 | E-5 | C |
| C3422 | E-5 | C |
| C3423 | E-5 | C |
| C3424 | E-5 | C |
| C3425 | E-5 | C |
| C3426 | E-5 | C |
| C3427 | E-5 | C |
| C3428 | E-5 | C |
| C3429 | E-7 | C |
| C3430 | E-6 | C |
| C3431 | E-6 | C |
| C3432 | E-6 | C |
| C3433 | E-6 | C |
| C3435 | E-6 | C |
| C3436 | E-6 | C |
| C3440 | E-7 | C |
| C3441 | E-2 | F |
| C3502 | C-7 | F |
| C4411 | E-6 | F |
| C4412 | E-2 | C |
| C4413 | E-1 | C |
| C4414 | E-6 | F |
| C4415 | E-5 | F |
| C4416 | D-4 | C |
| C4417 | E-6 | F |
| C4418 | D-3 | C |
| C4421 | E-3 | C |
| C4422 | E-1 | C |
| C4423 | D-3 | C |
| C4424 | F-4 | F |
| C4425 | F-6 | F |
| C4426 | E-5 | F |
| C4427 | E-2 | C |
| C4428 | E-6 | F |
| C4429 | E-6 | F |
| C4430 | E-6 | F |
| C4431 | E-6 | F |
| C4432 | E-7 | F |
| C4433 | E-1 | C |
| C4434 | E-7 | F |
| C6001 | D-3 | F |
| C6002 | D-4 | F |
| C6003 | C-3 | F |
| C9001 | E-4 | C |
| C9002 | E-4 | C |
| C50001 | C-3 | F |
| C50002 | C-5 | C |
| C50004 | C-5 | C |
| C50005 | F-5 | C |

**Resistor**

| | | |
|---|---|---|
| R3405 | E-5 | C |
| R3407 | E-5 | C |
| R3409 | E-6 | C |
| R3410 | E-6 | C |
| R3411 | E-6 | C |
| R3412 | E-6 | C |
| R3414 | E-2 | F |
| R3416 | E-6 | C |
| R3417 | E-6 | C |
| R3418 | E-6 | C |
| R3419 | D-5 | C |
| R3420 | D-5 | C |
| R3421 | D-5 | C |
| R3422 | E-5 | C |

| | | |
|---|---|---|
| R3423 | E-5 | C |
| R3427 | E-5 | C |
| R3430 | D-5 | C |
| R3432 | E-5 | C |
| R3433 | D-4 | C |
| R3434 | E-5 | C |
| R3436 | E-2 | F |
| R3438 | E-5 | C |
| R3440 | D-4 | C |
| R3442 | D-4 | C |
| R3443 | D-4 | C |
| R3444 | D-4 | C |
| R3445 | D-2 | F |
| R3447 | E-2 | F |
| R3448 | E-2 | F |
| R3449 | E-2 | F |
| R3450 | E-2 | F |
| R3451 | E-2 | F |
| R3452 | D-2 | F |
| R3453 | D-2 | F |
| R3454 | E-2 | F |
| R3455 | D-2 | F |
| R3456 | D-2 | F |
| R3457 | E-2 | F |
| R3458 | D-2 | F |
| R3460 | D-2 | F |
| R3461 | E-2 | F |
| R3462 | E-2 | F |
| R3463 | D-5 | C |
| R3464 | C-5 | C |
| R3472 | D-4 | C |
| R3473 | D-5 | C |
| R3476 | E-5 | C |
| R3501 | C-5 | F |
| R3502 | C-5 | F |
| R3503 | C-5 | F |
| R3509 | C-5 | F |
| R3510 | D-5 | F |
| R3511 | D-5 | F |
| R3514 | D-5 | F |
| R3519 | D-6 | F |
| R3520 | D-6 | F |
| R3521 | D-6 | F |
| R3522 | D-6 | F |
| R3523 | D-6 | F |
| R3524 | D-6 | F |
| R3525 | D-6 | F |
| R3526 | C-6 | F |
| R3527 | C-6 | F |
| R3528 | C-6 | F |
| R3530 | D-6 | F |
| R3531 | C-7 | F |
| R3532 | D-6 | F |
| R3533 | C-7 | F |
| R3535 | C-7 | F |
| R3537 | C-7 | F |
| R3541 | D-6 | F |
| R3542 | D-6 | F |
| R3543 | D-7 | F |
| R3548 | D-6 | F |
| R3553 | D-6 | F |
| R4418 | E-7 | F |
| R4419 | E-7 | F |
| R4420 | E-7 | F |
| R4421 | E-7 | F |
| R4422 | E-6 | F |
| R4423 | E-7 | F |
| R4424 | E-6 | F |
| R4425 | E-6 | F |
| R4426 | F-2 | C |
| R4427 | F-2 | C |
| R4429 | E-6 | F |
| R4430 | F-6 | F |
| R4431 | F-5 | F |
| R4432 | F-5 | F |
| R4434 | E-6 | F |
| R4435 | E-6 | F |
| R4436 | E-6 | F |
| R4437 | E-6 | F |
| R4438 | D-6 | F |
| R4439 | D-6 | F |

| | | |
|---|---|---|
| R4450 | E-7 | F |
| R4451 | E-7 | F |
| R4452 | E-6 | F |
| R4453 | E-7 | F |
| R4454 | D-6 | F |
| R4455 | D-6 | F |
| R4456 | E-6 | F |
| R4457 | E-7 | F |
| R6001 | B-1 | F |
| R6002 | C-3 | F |
| R6003 | C-4 | F |
| R6004 | E-4 | C |
| R6005 | D-4 | C |
| R6006 | D-4 | C |
| R6007 | D-4 | C |
| R6008 | C-6 | C |
| R6009 | C-4 | F |
| R6010 | C-4 | F |
| R6011 | C-4 | C |
| R6013 | B-4 | F |
| R6014 | A-5 | F |
| R6015 | A-5 | F |
| R6016 | A-5 | F |
| R6017 | B-4 | F |
| R6018 | B-3 | F |
| R6019 | B-3 | F |
| R6020 | B-3 | F |
| R6021 | B-3 | F |
| R6022 | B-3 | F |
| R6023 | B-3 | F |
| R6024 | D-3 | F |
| R6027 | B-3 | F |
| R6028 | D-3 | F |
| R6029 | C-3 | F |
| R6031 | D-3 | F |
| R6035 | D-3 | F |
| R6036 | D-3 | F |
| R6037 | D-3 | F |
| R6039 | D-3 | F |
| R6040 | C-5 | C |
| R6041 | B-6 | C |
| R6042 | B-6 | C |
| R6043 | D-3 | F |
| R6044 | D-2 | F |
| R6045 | B-3 | C |
| R6046 | A-3 | C |
| R6047 | B-3 | C |
| R6048 | B-3 | C |
| R6049 | B-3 | C |
| R6050 | B-3 | C |
| R6051 | B-3 | C |
| R6052 | B-3 | C |
| R6053 | C-2 | C |
| R6054 | C-2 | C |
| R6055 | C-2 | C |
| R6056 | C-2 | C |
| R6057 | C-2 | C |
| R6058 | C-2 | C |
| R6059 | C-2 | C |
| R6060 | C-2 | C |
| R6061 | C-2 | C |
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| R6063 | C-2 | C |
| R6064 | C-2 | C |
| R6065 | C-2 | C |
| R6066 | C-2 | C |
| R6067 | C-2 | C |
| R6068 | C-2 | C |
| R6069 | C-2 | C |
| R6070 | C-2 | C |
| R6071 | C-2 | C |
| R6072 | C-2 | C |
| R6073 | C-2 | C |
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| R6097 | C-2 | C |
| R6098 | C-2 | C |
| R6099 | C-2 | C |
| R6100 | C-2 | C |
| R6101 | C-2 | C |
| R6102 | C-2 | C |
| R6103 | C-2 | C |
| R6104 | C-2 | C |
| R6105 | C-2 | C |
| R6106 | C-2 | C |
| R6107 | C-2 | C |
| R6108 | C-2 | C |
| R6109 | C-2 | C |
| R6110 | C-2 | C |
| R6111 | C-2 | C |
| R6112 | C-2 | C |
| R6113 | C-2 | C |
| R6114 | C-2 | C |
| R6115 | C-2 | C |
| R6116 | C-2 | C |
| R6117 | C-2 | C |
| R6118 | C-2 | C |
| R6119 | C-2 | C |
| R6120 | C-2 | C |
| R6121 | C-2 | C |
| R6122 | C-2 | C |
| R6123 | C-2 | C |
| R6124 | C-2 | C |
| R6125 | C-2 | C |
| R6126 | C-2 | C |
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| R6178 | C-2 | C |
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| R6180 | C-2 | C |
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| R6182 | C-2 | C |
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| R6220 | C-2 | C |
| R6221 | C-2 | C |
| R6222 | C-2 | C |
| R6223 | C-2 | C |
| R6224 | C-2 | C |
| R6225 | C-2 | C |
| R6226 | C-2 | C |
| R6227 | C-2 | C |
| R6228 | C-2 | C |
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| R6231 | C-2 | C |
| R6232 | C-2 | C |
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| R6264 | C-2 | C |
| R6265 | C-2 | C |
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| R6280 | C-2 | C |
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| R6297 | C-2 | C |
| R6298 | C-2 | C |
| R6299 | C-2 | C |
| R6300 | C-2 | C |
| R6301 | C-2 | C |
| R6302 | C-2 | C |
| R6303 | C-2 | C |
| R6304 | C-2 | C |
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| R6306 | C-2 | C |
| R6307 | C-2 | C |
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| R6319 | C-2 | C |
| R6320 | C-2 | C |
| R6321 | C-2 | C |
| R6322 | C-2 | C |
| R6323 | C-2 | C |
| R6324 | C-2 | C |
| R6325 | C-2 | C |
| R6326 | C-2 | C |
| R6327 | C-2 | C |
| R6328 | C-2 | C |
| R6329 | C-2 | C |
| R6330 | C-2 | C |
| R6331 | C-2 | C |
| R6332 | C-2 | C |
| R6333 | C-2 | C |
| R6334 | C-2 | C |
| R6335 | C-2 | C |
| R6336 | C-2 | C |
| R6337 | C-2 | C |
| R6338 | C-2 | C |
| R6339 | C-2 | C |
| R6340 | C-2 | C |
| R6341 | C-2 | C |
| R6342 | C-2 | C |
| R6343 | C-2 | C |
| R6344 | C-2 | C |
| R6345 | C-2 | C |
| R6346 | C-2 | C |
| R6347 | C-2 | C |
| R6348 | C-2 | C |
| R6349 | C-2 | C |
| R6350 | C-2 | C |
| R6351 | C-2 | C |
| R6352 | C-2 | C |
| R6353 | C-2 | C |
| R6354 | C-2 | C |
| R6355 | C-2 | C |
| R6356 | C-2 | C |
| R6357 | C-2 | C |
| R6358 | C-2 | C |
| R6359 | C-2 | C |
| R6360 | C-2 | C |
| R6361 | C-2 | C |
| R6362 | C-2 | C |
| R6363 | C-2 | C |
| R6364 | C-2 | C |
| R6365 | C-2 | C |
| R6366 | C-2 | C |
| R6367 | C-2 | C |
| R6368 | C-2 | C |
| R6369 | C-2 | C |
| R6370 | C-2 | C |
| R6371 | C-2 | C |
| R6372 | C-2 | C |
| R6373 | C-2 | C |
| R6374 | C-2 | C |
| R6375 | C-2 | C |
| R6376 | C-2 | C |
| R6377 | C-2 | C |
| R6378 | C-2 | C |
| R6379 | C-2 | C |
| R6380 | C-2 | C |
| R6381 | C-2 | C |
| R6382 | C-2 | C |
| R6383 | C-2 | C |
| R6384 | C-2 | C |
| R6385 | C-2 | C |
| R6386 | C-2 | C |
| R6387 | C-2 | C |
| R6388 | C-2 | C |
| R6389 | C-2 | C |
| R6390 | C-2 | C |
| R6391 | C-2 | C |
| R6392 | C-2 | C |
| R6393 | C-2 | C |
| R6394 | C-2 | C |
| R6395 | C-2 | C |
| R6396 | C-2 | C |
| R6397 | C-2 | C |
| R6398 | C-2 | C |
| R6399 | C-2 | C |
| R6400 | C-2 | C |
| R6401 | C-2 | C |
| R6402 | C-2 | C |
| R6403 | C-2 | C |
| R6404 | C-2 | C |
| R6405 | C-2 | C |
| R6406 | C-2 | C |
| R6407 | C-2 | C |
| R6408 | C-2 | C |
| R6409 | C-2 | C |
| R6410 | C-2 | C |
| R6411 | C-2 | C |
| R6412 | C-2 | C |
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| R6414 | C-2 | C |
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| R6416 | C-2 | C |
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| R6426 | C-2 | C |
| R6427 | C-2 | C |
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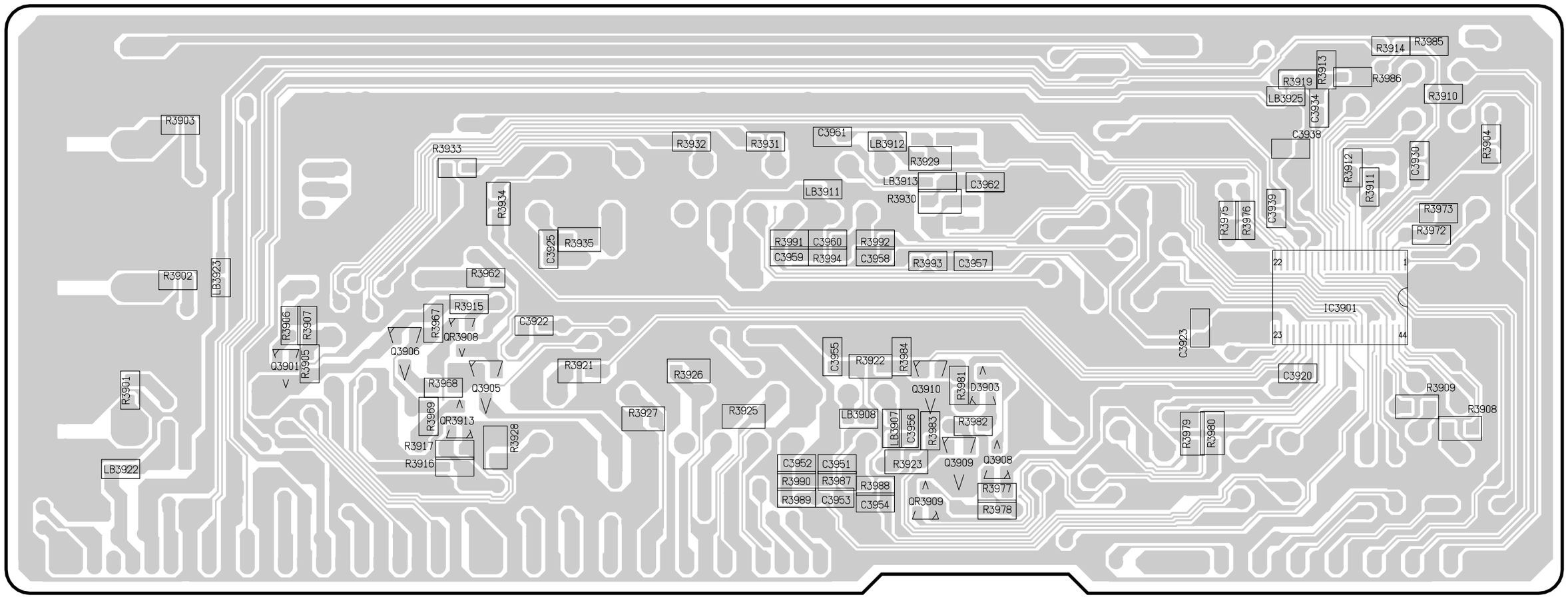
| R6429 | C-2 | C |
| R6430 | C-2 | C |
| R6431 | C-2 | C |
| R6432 | C-2 | C |
| R6433 | C-2 | C |
| R6434 | C-2 | C |
| R6435 | C-2 | C |
| R6436 | C-2 | C |
| R6437 | C-2 | C |
| R6438 | C-2 | C |
| R6439 | C-2 | C |
| R6440 | C-2 | C |
| R6441 | C-2 | C |
| R6442 | C-2 | C |
| R6443 | C-2 | C |
| R6444 | C-2 | C |
| R6445 | C-2 | C |
| R6446 | C-2 | C |
| R6447 | C-2 | C |
| R6448 | C-2 | C |
| R6449 | C-2 | C |
| R6450 | C-2 | C |
| R6451 | C-2 | C |
| R6452

## Scart P.C.B.(Foil Side)

| Integrated Circuit | | Coil | | C3934 | C-8 | Resistor | | R3916 | B-3 | R3935 | C-4 | R3983 | B-6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IC3901 | B-8 | LB3907 | B-6 | C3938 | C-8 | R3901 | B-1 | R3917 | B-3 | R3962 | C-3 | R3984 | B-6 |
| **Transistor** | | LB3908 | B-5 | C3939 | C-8 | R3902 | C-2 | R3919 | D-8 | R3967 | B-3 | R3985 | D-9 |
| Q3901 | B-2 | LB3911 | C-5 | C3951 | B-5 | R3903 | C-2 | R3921 | B-4 | R3968 | B-3 | R3986 | D-8 |
| Q3905 | B-3 | LB3912 | C-6 | C3952 | B-5 | R3904 | C-9 | R3922 | B-6 | R3969 | B-3 | R3987 | A-5 |
| Q3906 | B-3 | LB3913 | C-6 | C3953 | A-5 | R3905 | B-2 | R3923 | B-6 | R3972 | C-9 | R3988 | A-6 |
| Q3908 | B-6 | LB3922 | B-1 | C3954 | A-6 | R3906 | B-2 | R3925 | B-5 | R3973 | C-9 | R3989 | A-5 |
| Q3909 | B-6 | LB3923 | C-2 | C3955 | B-5 | R3907 | B-2 | R3926 | B-5 | R3975 | C-7 | R3990 | A-5 |
| Q3910 | B-6 | LB3925 | D-8 | C3956 | B-6 | R3908 | B-9 | R3927 | B-4 | R3976 | C-8 | R3991 | C-5 |
| **Transistor-resistor** | | **Capacitor** | | C3957 | C-6 | R3909 | B-9 | R3928 | B-3 | R3977 | A-6 | R3992 | C-6 |
| QR3908 | B-3 | C3920 | B-8 | C3958 | C-6 | R3910 | D-9 | R3929 | C-6 | R3978 | A-6 | R3993 | C-6 |
| QR3909 | A-6 | C3922 | B-4 | C3959 | C-5 | R3911 | C-8 | R3930 | C-6 | R3979 | B-7 | R3994 | C-5 |
| QR3913 | B-3 | C3923 | B-7 | C3960 | C-5 | R3912 | C-8 | R3932 | C-5 | R3980 | B-7 | | |
| **Diode** | | C3925 | C-4 | C3961 | C-5 | R3914 | D-8 | R3933 | C-3 | R3981 | B-6 | | |
| D3903 | B-6 | C3930 | C-8 | C3962 | C-6 | R3915 | B-3 | R3934 | C-4 | R3982 | B-6 | | |

### Scart P.C.B.




(FOIL SIDE)

DMR-E85HEB/EG
Scart P.C.B. (Foil Side)
(REP3682A)

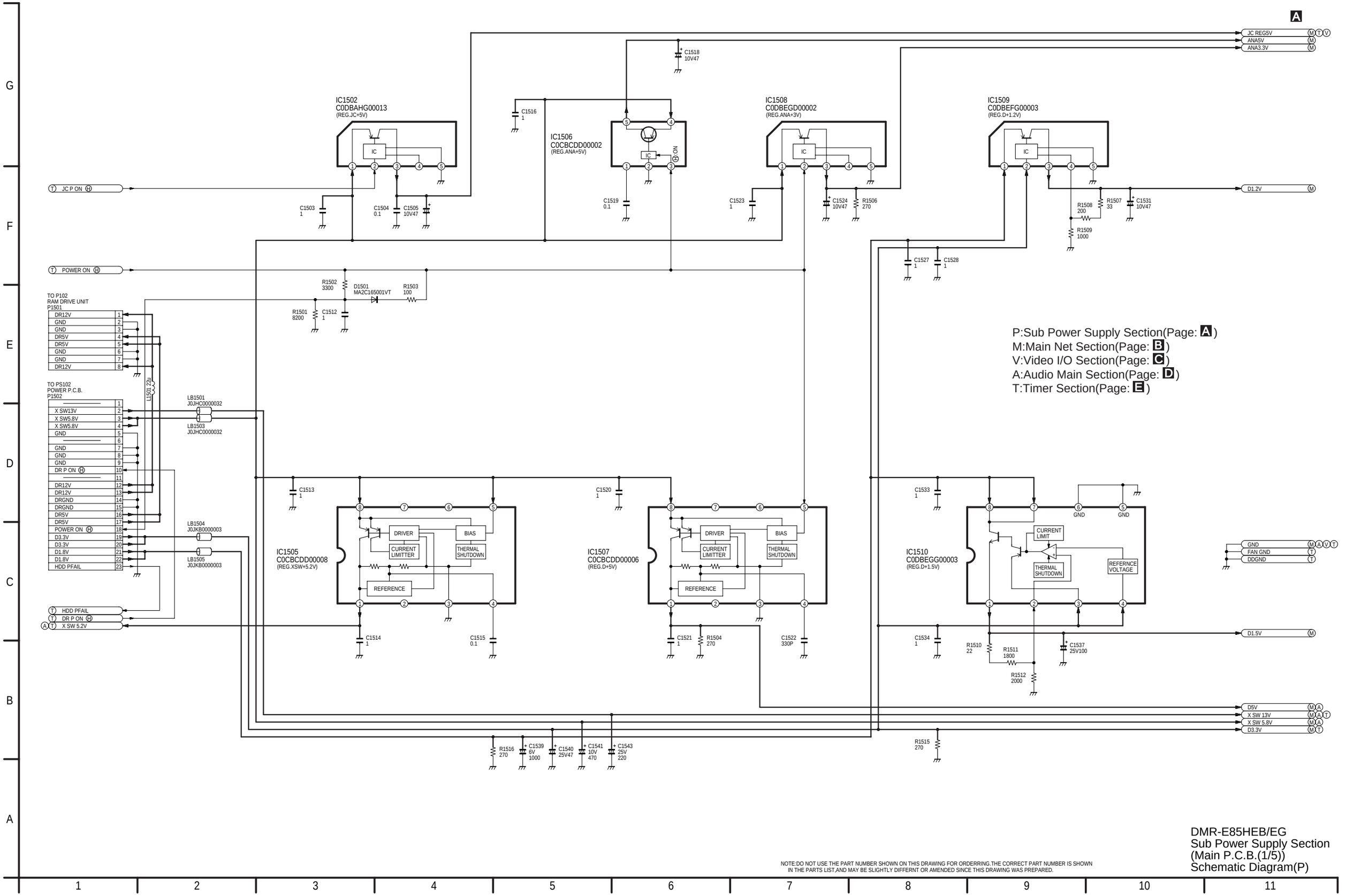
| Ref No. | IC3901 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 5.6 | 5.6 | 0 | 0 | 1.2 | 0 | 2.2 | 0 | 0 | 5.6 | 5.6 | 5.0 | 1.8 | 12.1 | 5.6 | 5.6 | 0 | 1.8 | 3.6 | 0 |
| PLAY | 5.6 | 5.6 | 0 | 0 | 1.2 | 0 | 2.2 | 0 | 0 | 5.6 | 5.6 | 5.0 | 1.8 | 12.1 | 5.6 | 5.6 | 0 | 1.8 | 3.6 | 11.6 |
| STOP | 5.6 | 5.6 | 0 | 0 | 1.2 | 0 | 2.2 | 0 | 0 | 5.6 | 5.6 | 5.0 | 1.8 | 12.1 | 5.6 | 5.6 | 0 | 1.8 | 3.6 | 0 |

| Ref No. | IC3901 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | 4.2 | 4.5 | 1.8 | 5.0 | 2.0 | 2.0 | 0 | 1.8 | 5.0 | 4.9 | 4.9 | 0 | 5.6 | 5.6 | 0 | 5.6 | 5.6 | 0 | 4.9 | 4.9 |
| PLAY | 4.2 | 4.5 | 1.8 | 5.0 | 2.0 | 2.0 | 0 | 1.8 | 5.0 | 4.9 | 4.9 | 0 | 5.6 | 5.6 | 0.2 | 5.6 | 5.6 | 0 | 4.9 | 4.9 |
| STOP | 4.2 | 4.5 | 1.8 | 5.0 | 2.0 | 2.0 | 0 | 1.8 | 5.0 | 4.9 | 4.9 | 0 | 5.6 | 5.6 | 0 | 5.6 | 5.6 | 0 | 4.9 | 4.9 |

| Ref No. | IC3901 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 41 | 42 | 43 | 44 | | | | | | | | | | | | | | | | |
| REC | 0 | 4.9 | 4.9 | 0 | | | | | | | | | | | | | | | | |
| PLAY | 0 | 4.9 | 4.9 | 0 | | | | | | | | | | | | | | | | |
| STOP | 0 | 4.9 | 4.9 | 0 | | | | | | | | | | | | | | | | |

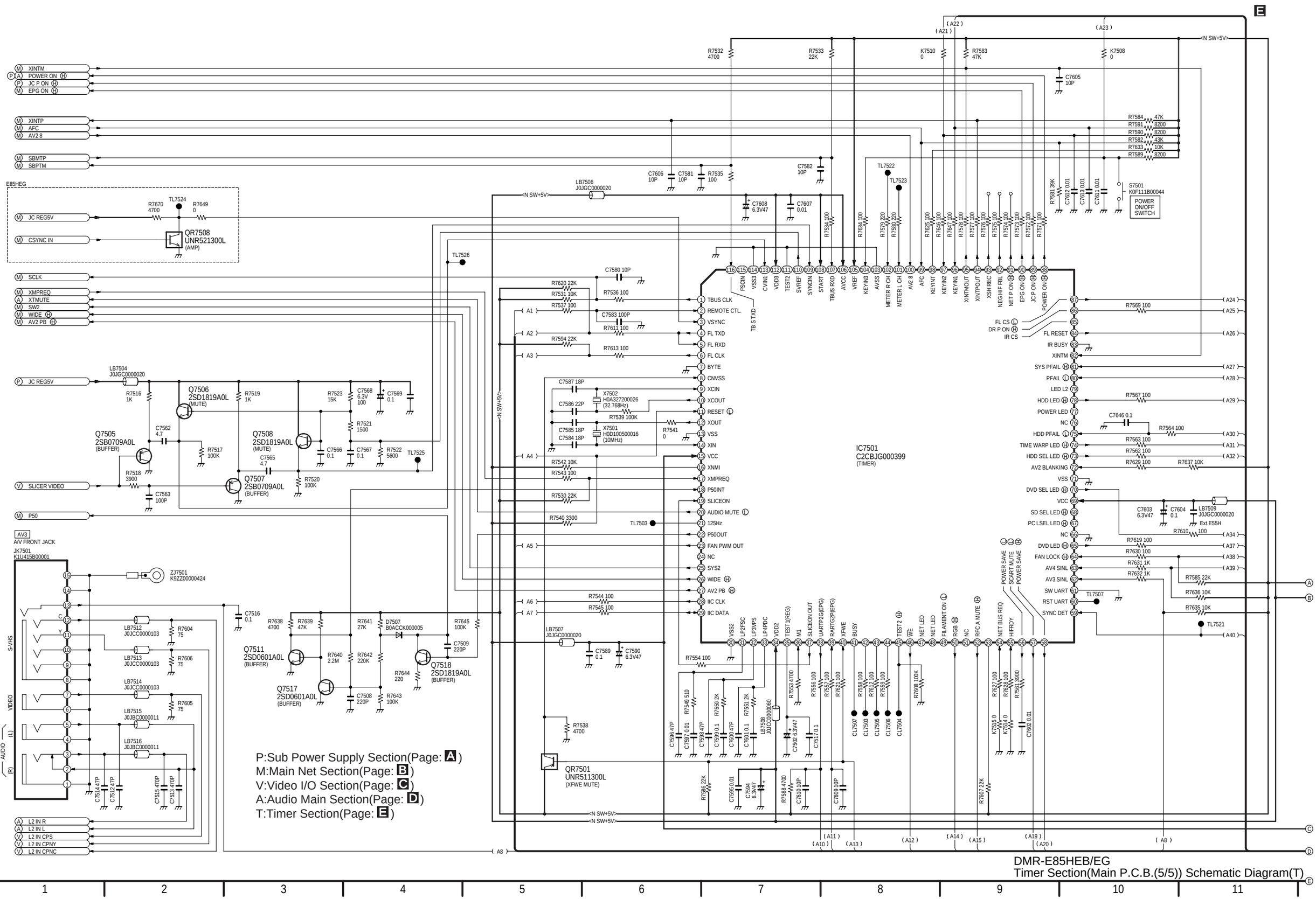
| Ref No. | Q3901 | | | | Q3905 | | | | Q3906 | | | | Q3908 | | | | Q3909 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B | |
| REC | 2.1 | 5.0 | 2.7 | | 0 | 0 | 0 | | 5.0 | 0 | 5.0 | | 5.0 | -0.6 | 5.0 | | 0 | 0 | -0.2 | |
| PLAY | 2.1 | 5.0 | 2.7 | | 0 | 0 | 0 | | 5.0 | 0 | 5.0 | | 5.0 | -0.6 | 5.0 | | 0 | 0 | -0.2 | |
| STOP | 2.1 | 5.0 | 2.7 | | 0 | 0 | 0 | | 5.0 | 0 | 5.0 | | 5.0 | -0.6 | 5.0 | | 0 | 0 | -0.3 | |

| Ref No. | Q3910 | | | | QR3908 | | | | QR3909 | | | | QR3913 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | | | | |
| REC | 0 | 0 | 0 | | 0 | 3.6 | 0 | | 0 | 5.0 | 0 | | 0 | 5.0 | 0 | | | | | |
| PLAY | 0 | 0 | 0 | | 0 | 0 | 3.6 | | 0 | 5.0 | 0 | | 0 | 5.0 | 0.2 | | | | | |
| STOP | 0 | 0 | -0.1 | | 0 | 0 | 3.6 | | 0 | 5.0 | 0 | | 0 | 5.0 | 0 | | | | | |




NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E85HEB/EG
Sub Power Supply Section
(Main P.C.B.(1/5))
Schematic Diagram(P)


XINTM
POWER ON H
JC P ON H
EPG ON H
XINTP
AFC
AV2 8
SBMTP
SBPTM
E85HEG
JC REGSV
CSYNC IN
TL7524
R7670 4700
R7649 0
QR7508 UNR521300L (AMP)
SCLK
XMPREQ
XTMUTE
SW2
WIDE H
AV2 PB H
JC REGSV
LB7504 J0JGC0000020
Q7506 2SD1819A0L (MUTE)
Q7505 2SB0709A0L (BUFFER)
Q7508 2SD1819A0L (MUTE)
Q7507 2SB0709A0L (BUFFER)
SLICER VIDEO
P50
AV3
A/V FRONT JACK
JK7501 K1U415B00001
ZJ7501 K9ZZ00000424
S-VHS
VIDEO
AUDIO (L)
AUDIO (R)
LB7512 J0JCC0000103
LB7513 J0JCC0000103
LB7514 J0JCC0000103
LB7515 J0JBC0000011
LB7516 J0JBC0000011
L2 IN R
L2 IN L
L2 IN CPS
L2 IN CPNY
L2 IN CPNC
Q7511 2SD0601A0L (BUFFER)
Q7517 2SD0601A0L (BUFFER)
Q7518 2SD1819A0L (BUFFER)
D7507 B0ACCK000005
LB7506 J0JGC0000020
LB7507 J0JGC0000020
TL7526
TL7525
TL7503
TL7522
TL7523
TL7507
TL7521
<N SW+5V>
IC7501
C2CBJG000399
(TIMER)
TBUS CLK
REMOTE CTL.
VSYNC
FL TXD
FL RXD
FL CLK
BYTE
CNVSS
XCIN
XCOUT
RESET L
XOUT
VSS
XIN
VCC
XNMI
XMPREQ
P50INT
SLICEON
AUDIO MUTE L
125Hz
P50OUT
FAN PWM OUT
NC
SYS2
WIDE H
AV2 PB H
IIC CLK
IIC DATA
FSCIN
VSS3
CVIN1
VDD3
TEST2
SVREF
SYNCIN
START
TBUS RXD
AVCC
VREF
KEYIN3
AVSS
METER R CH
METER L CH
AV2 8B
AFC
KEYINT
KEYIN2
KEYIN1
XINTMOUT
XINTPOUT
XSH REC
NEG HIF FBL
NET P ON H
EPG ON H
JC P ON H
POWER ON H
FL CS L
DR P ON H
IR CS
FL RESET
IR BUSY
XINTM
SYS PFAIL H
PFAIL L
LED L2
HDD LED H
POWER LED
NC
HDD PFAIL L
TIME WARP LED H
HDD SEL LED H
AV2 BLANKING
VSS
DVD SEL LED H
VCC
SD SEL LED H
PC LSEL LED H
NC
DVD LED H
FAN LOCK H
AV4 SINL
AV3 SINL
SW UART
RST UART
SYNC DET
VSS2
LP2FSC
LP3VPS
LP4PDC
VDD2
TEST1(REG)
M1
SLICEON OUT
UARTP2G(EPG)
RARTG2P(EPG)
XFWE
BUSY
TEST2 H
WE
NET LED
NET LED
FILAMENT ON L
RGB H
NC
RFC-A MUTE H
NET BUS REQ
HIFRDY
POWER SAVE
SCART MUTE
POWER SAVE
QR7501 UNR511300L (XFWE MUTE)
S7501 K0F111B00044
POWER ON/OFF SWITCH
LB7508 J0JCC0000060
LB7509 J0JGC0000020
Ext.E55H
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)
DMR-E85HEB/EG

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

TIMER DISPLAY
DP7501
A2BD00000074

TL7501

TL7502

IC7502
C0HBB0000033
(DISPLAY DRIVE)

IC7503
C0EBJ0000110
(RESET)

IC7505
C0EBE0000194
(SYS PFAIL CTL.)

QR7502
UNR521200L
(SYS PFAIL H OUT)

Q7503
2SD1994BR1VT
(SWITCH)

QR7503
UNR521400L
(PSAVE H :ON)

IC7508
C0EBE0000218
(RESET)

IC7506
C0ABBA000073
(FAN MOTOR DRIVE)

Q7512
2SD0874A0L
(FAN MOTOR DRIVE)

Q7519
2SD601A0L
(HDD LED DRIVE)

IC7504
C3EBJC000038
(EEPROM)

T7501
ETS13TB119AP
(DISPLAY REG.)

IP7501
D4FAR4000001

LB7501 0
LB7502 0
LB7503 J0JKB0000037
LB7510 J0JGC0000020
LB7511 J0JGC0000020

D7501 MAZ4240NMF
D7502 B0AAGM000007
D7504 MA2C18500E
D7505 MA2C18500E
D7506 MAZ4300NLF
D7508 B0JDCE000002
D7512 B3AEA0000049
TW7501

TO P7801
FRONT(R) P.C.B.
P7504

| | |
|---|---|
| 1 | KEYIN2 |
| 2 | KEYIN3 |
| 3 | KEYIN1 |
| 4 | TIME WARP LED H |
| 5 | HDD SEL LED H |
| 6 | N SW 5V |
| 7 | DVD SEL LED H |
| 8 | |
| 9 | |
| 10 | DVD LED H |
| 11 | IR |
| 12 | GND |

P7503

| | |
|---|---|
| 1 | FANDCOUT |
| 2 | GND |
| 3 | FANLOCK H |

FAN MOTOR

<N SW+5V>
<X SW+13V>
X SW 13V (P)
GND (P)
UNREG 38V (M)
DDGND (P)
POWER SAVE H (M)
D3.3V (P)
X SW 5.2V (P)
DR P ON H (P)
HDD PFAIL (P)
AV4 S IN L (V)
SYNC DET (V)
XFWE (M)
UARTP2G (M)
UARTG2P (M)
RGB H (V)
RFC A MUTE H (M)
SCART MUTE L (A)
FAN GND (P)
IIC CLK (M A V)
IIC DATA (M A V)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E85HEB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

DMR-E85HEB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

FRONT(R) P.C.B.

IR7801
REMOTE CTL. RECEIVER
N SW+5V
P7801 | P7504 11 — IR → REMOTE CTL.

S7802 SKIP-F
S7801 OPEN/CLOSE
P7801 | P7504 3 — KEY IN1

S7813 SKIP-R
S7812 STOP
S7811 REC
S7809 CH-DOWN
P7801 | P7504 1 — KEY IN2

S7822 SELECT
S7821 PLAY
S7820 TIME-WARP
S7819 CH-UP
P7801 | P7504 2 — KEY IN3

N SW+5V
TIME-WARP — D7801 — QR7801 (TIME-WARP LED DRIVE)
P7801 | P7504 4 — TIME WARP LED (H)

HDD SEL — D7804 — QR7804 (HDD SEL LED DRIVE)
P7801 | P7504 5 — HDD SEL LED (H)

DVD SEL — D7805 — QR7805 (DVD SEL LED DRIVE)
P7801 | P7504 7 — DVD SEL LED (H)

DVD — D7806 — QR7806 (DVD LED DRIVE)
P7801 | P7504 10 — DVD LED (H)

HDD — D7512 — QR7519 (HDD LED DRIVE)
HDD LED (H)

IC7501 (TIMER)

RESET (L) 11 — IC7508 (RESET) 4 5 — X SW5.2V

X SW 13V — IP7501 IC PROTECTOR 1 2 — T7501 DISPLAY REGULATOR 4 1 5 — DP7501 1 F+ 59 F-

IC7502 (DISPLAY DRIVE)
FL TXD 4
FL RXD 5
FL CLK 6
S DATA 4
SCK 3
SEG00 44 ~ SEG11 33 / SEG19 25 ~ SEG25 19 / SEG26 17 ~ SEG31 12 / SEG35 45 ~ SEG41 51
DIG00 63 ~ DIG07 56
RESET (L) 1
TIMER DISPLAY
20 P1 ~ 51 P32
7 1G ~ 14 8G

IC7506 (FAN MOTOR DRIVE)
FAN PWM OUT 23
Q7512 (FAN MOTOR DRIVE)
FL RESET (L) 84
FANDCOUT
P7503 1 / P7503 3 — FAN MOTOR (M)
FAN LOCK (H) 64

AUDIO MUTE (L) 20 — XT MUTE QR4002- (B)
SCART MUTE (L) 57 — SCART MUTE (L) QR4012- (B)
E85HEB: RFC A MUTE (H) 52 — RFC A MUTE (H) QR7406- (E)
TO/FROM ANALOG AUDIO SECTION

Q7507 BUFFER
Q7505 BUFFER
SYNC IN 109
CVIN1 113
SYNC DET 59 — SYNC DET IC3001- 59
RGB (H) 50 — RGB (H) IC3002- 1
SLICER VIDEO IC3001- 67
TO/FROM ANALOG VIDEO SECTION

DR P ON (H) 86 — DR P ON (H)
POWER ON (H) 88 — POWER ON (H)
JC POWER ON (H) 89 — JC P ON (H)
POWER SAVE (H) 58 — QR7401/QR7503- (B), PP7403- 1
TO POWER SUPPLY SECTION

IIC DATA 29 — IIC DATA
IIC CLK 28 — IIC CLK

XCIN 9 — X7502 32.768KHz — XCOUT 10
XOUT 12 — X7501 10MHz — XIN 14

IC7504 (EEPROM) 6 SCL 5 SDA
IC3001 (VIDEO PROCESSOR) 58 SCL 57 SDA

TBUS CLK 1 — SCLK P7402- 33 — TO DIGITAL P.C.B.

<EEPROM information>
1.Country & Language
2.Tuner preset
3.Timer REC info.
4.ROM correction info.

PK7702 | PK7302 1 — PK7702 | PK7302 2
IC7301 (DECODER PACK) 29 SCL 30 SDA

PP7401 | PS3901 2 — PP7401 | PS3901 1
IC3901 (A/V BUFFER AND SELETOR SWITCH) 21 SDA 22 SCL

IC4001 (AUDIO PROCESSOR) 21 SDA 20 SCL

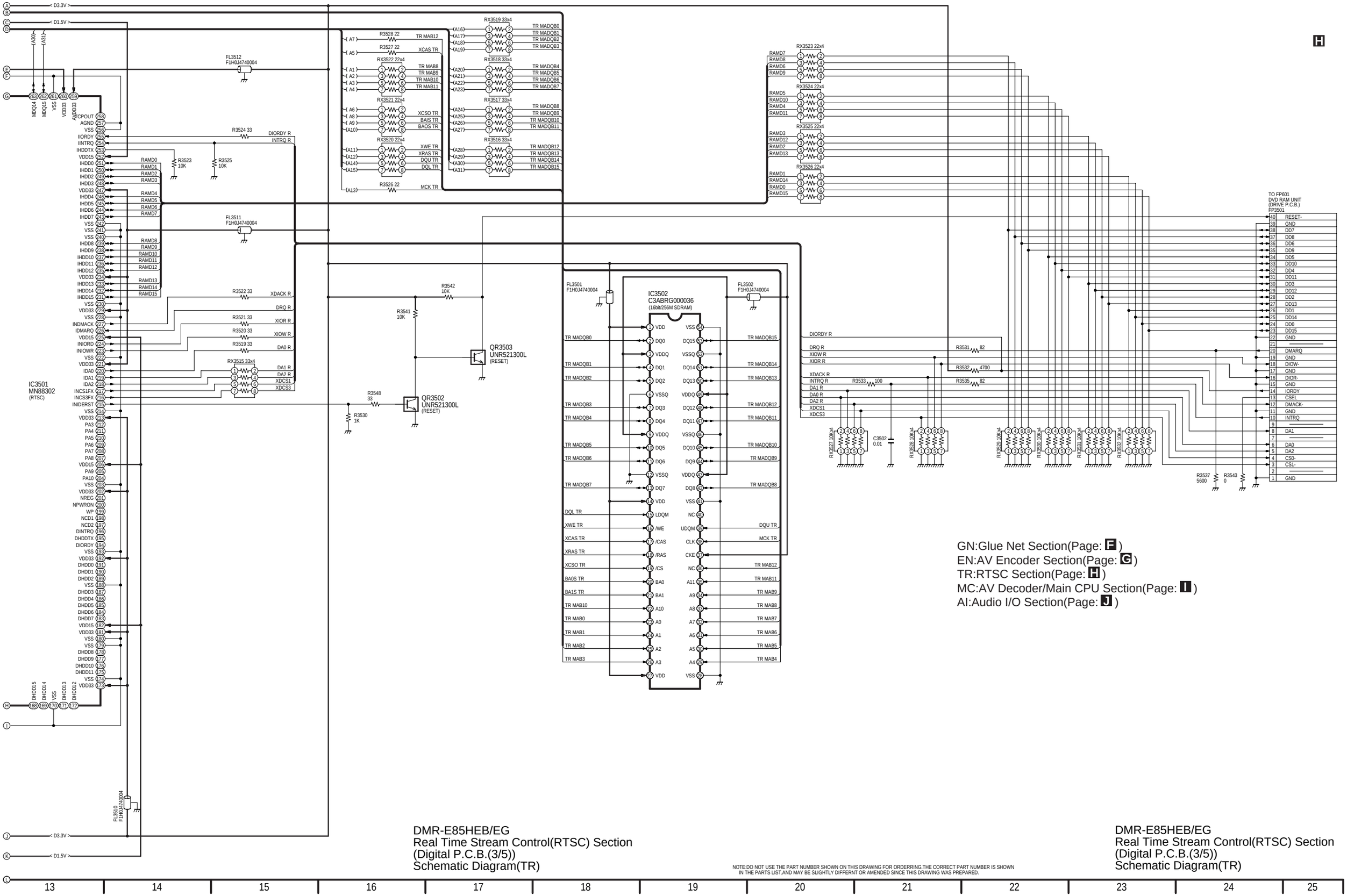
DU7402 TUNER 3 MSDA 12 SDA 5 MSCL 11 SCL

DMR-E85HEB/EG
Timer Block Diagram

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

IC3501
MN88302
(RTSC)

DMR-E85HEB/EG Real Time Stream Control(RTSC) Section(Digital P.C.B.(3/5)) Schematic Diagram(TR)




DMR-E85HEB/EG
Real Time Stream Control(RTSC) Section
(Digital P.C.B.(3/5))
Schematic Diagram(TR)

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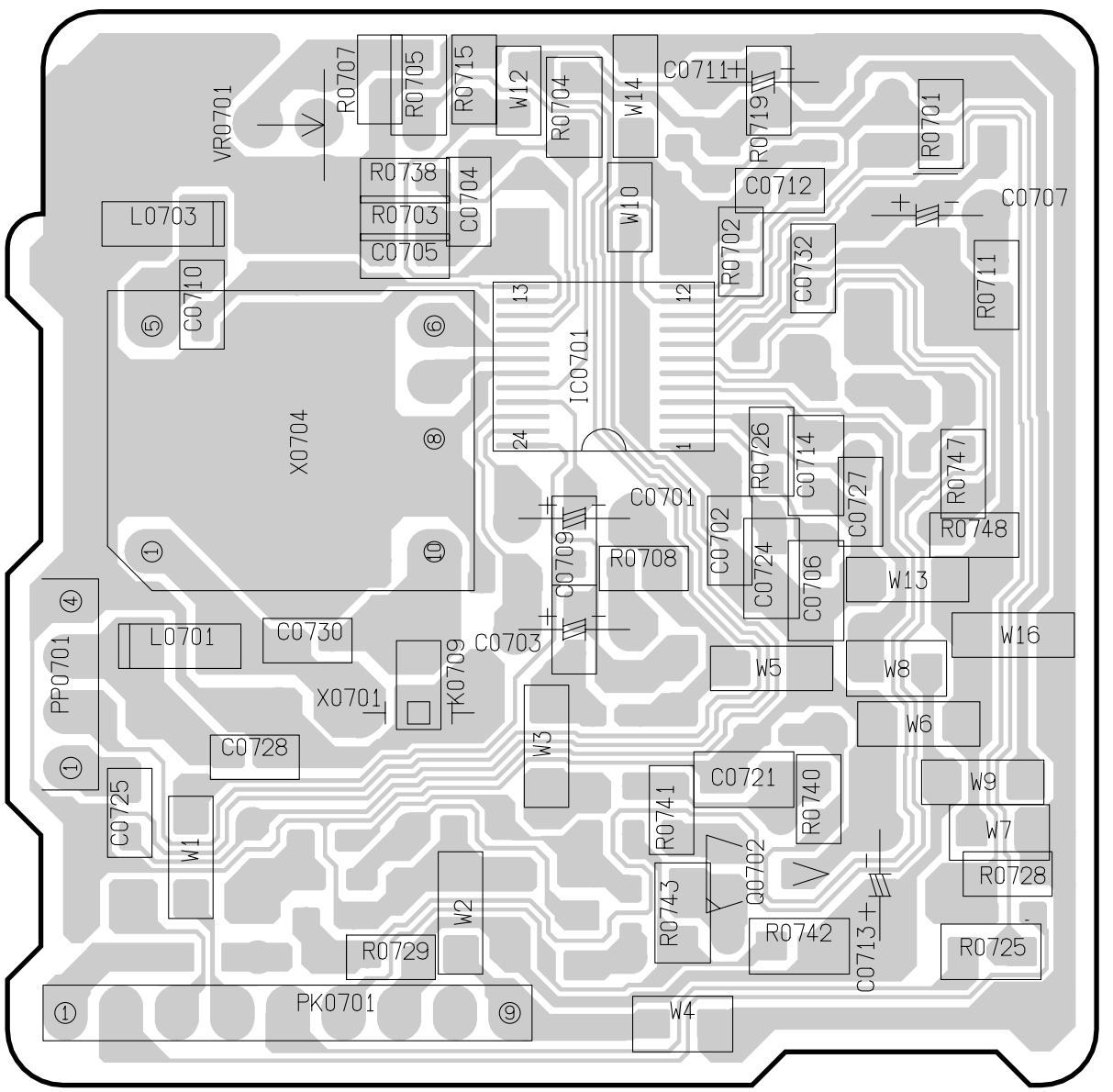
DMR-E85HEB/EG
Real Time Stream Control(RTSC) Section
(Digital P.C.B.(3/5))
Schematic Diagram(TR)

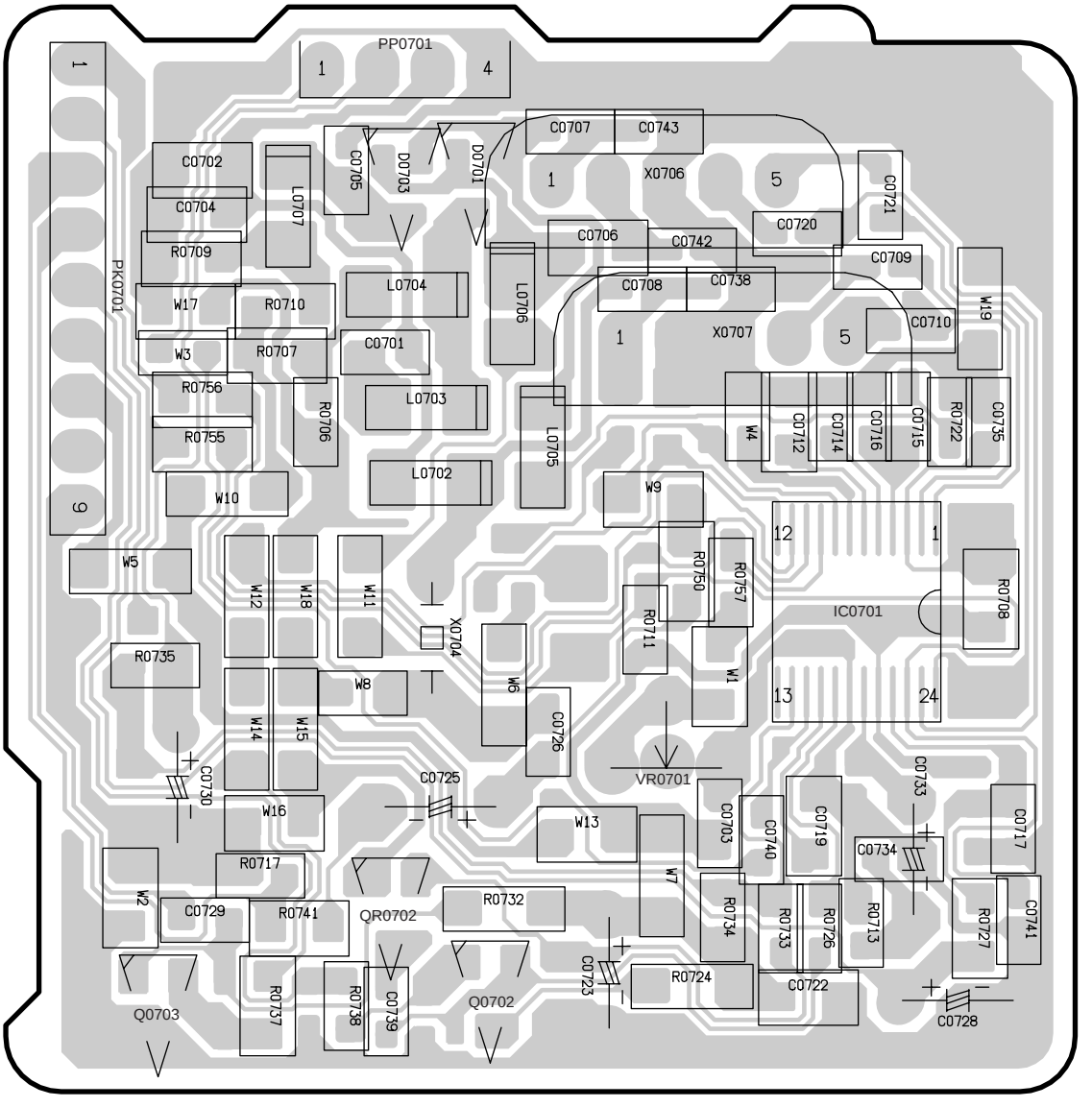
13 14 15 16 17 18 19 20 21 22 23 24 25

## VIF Decoder P.C.B.

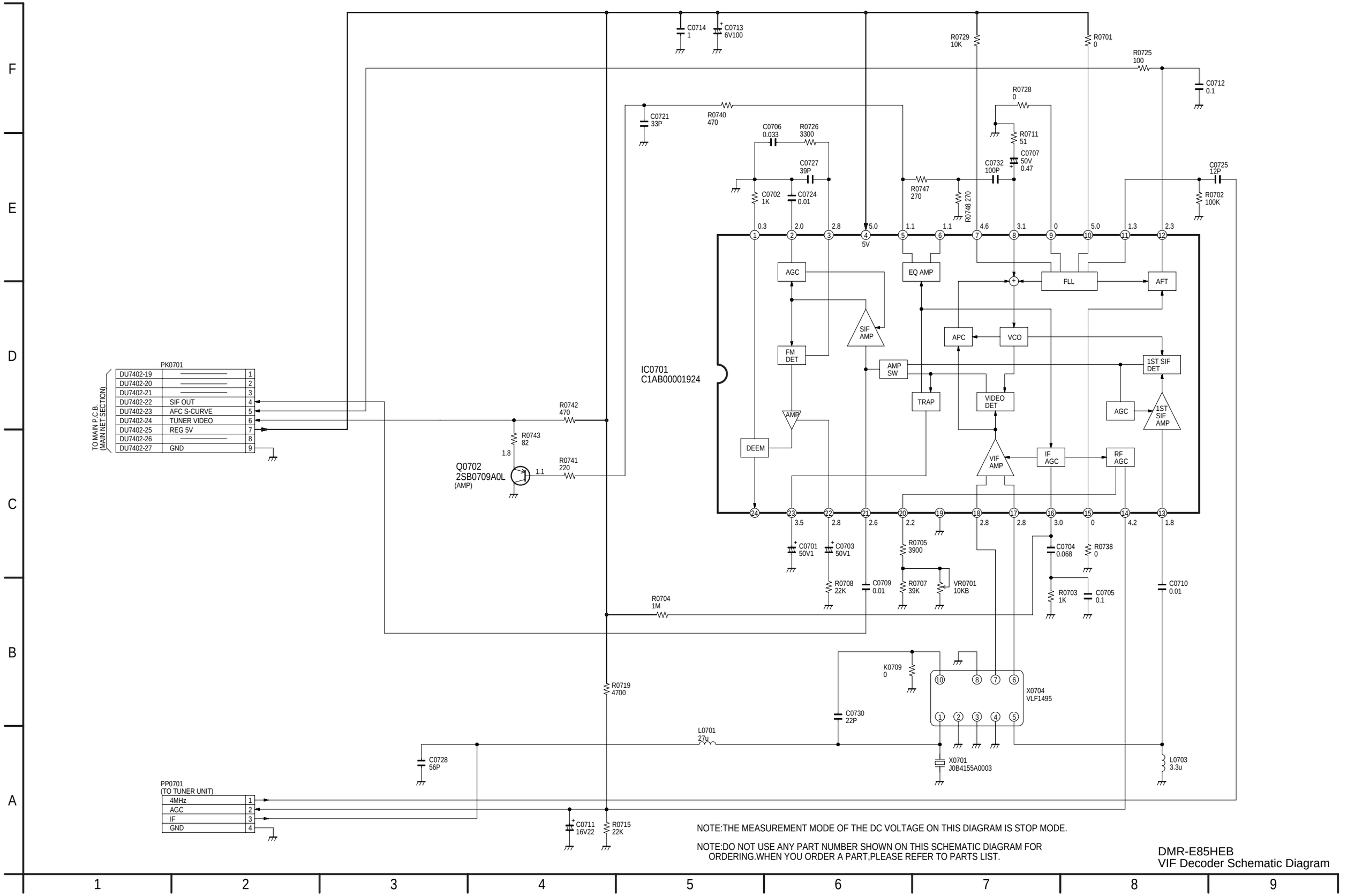



DMR-E85HEB
VIF Decoder P.C.B.
(VEP07A71M)

## VIF Decoder P.C.B.



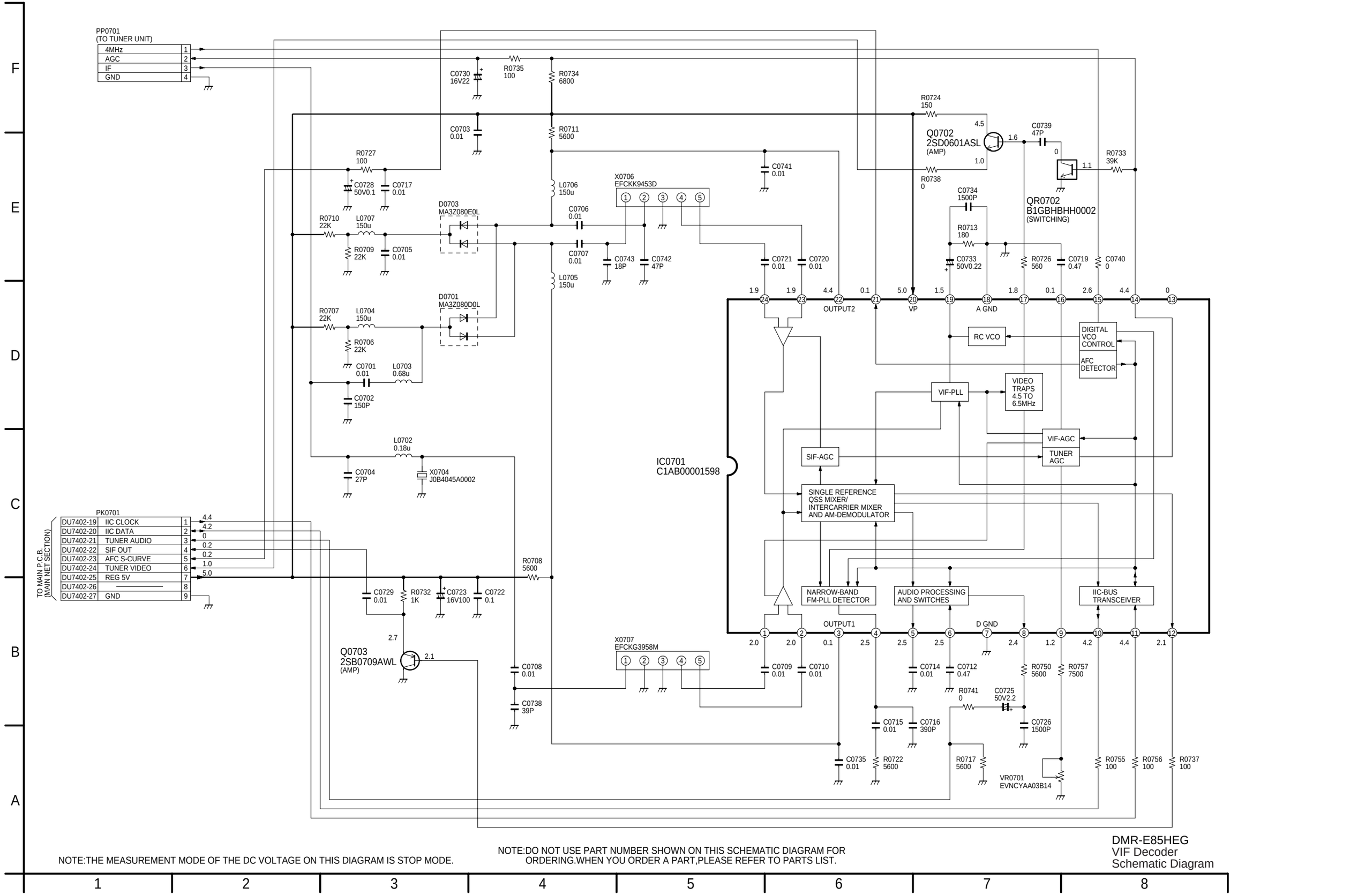

DMR-E85HEG
VIF Decoder P.C.B. (VEP07A47B)




NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E85HEB
VIF Decoder Schematic Diagram

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NOTE:DO NOT USE PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E85HEG
VIF Decoder
Schematic Diagram

M YOUT DM
P JC REG5V
T RGB Ⓗ
M GPYOUT DM
M RPROUT DM
M BPBOUT DM
M PS 5V
T SYNC DET
M IIC CLK
M IIC DATA
M B IN
M G IN
M R/C IN
M COUT DM
M V YIN DM
T SLICER VIDEO
M CPNCIN DM
T L2 IN CPS
T L2 IN CPNY
T L2 IN CPNC
M SCART VIN

LB3004 J0JHC0000032
LB3002 J0JHC0000032
LB3003 J0JHC0000032

R3053 1K
R3052 1K
R3049 33
R3051 33
R3026 15
R3027 470
R3028 470
R3047 15K
R3044 33
R3045 220
R3046 220
R3029 100K
R3060 75
R3037 1K
R3038 100

QR3002 UNR521200L (RGB Ⓗ :ON)
QR3003 UNR521200L (RGB Ⓗ :ON)
Q3009 2SB1218A0L (BUFFER)
Q3006 2SB1218A0L (BUFFER)
Q3010 2SB1218A0L (BUFFER)
Q3007 2SB1218A0L (AMP)

C3003 0.01
C3004 6V220
C3007 0.01
C3069 0.01
C3070 0.01
C3019 0.01
C3006 0.1
C3005 0.033
C3030 1M
C3009 0.01
C3018 6V100
C3071 0.01
C3020 0.01
C3031 0.01
C3032 6V330
C3033 16V22
C3034 6V330
C3035 16V22
C3036 6V330
C3037 16V22
C3022 6V22
C3026 6V47
C3023 6V47
C3027 6V47
C3028 6V47
C3024 6V22
C3029 6V47
C3025 6V47
C3030 0.01
C3010 0.01
C3012 0.01
C3013 0.01
C3021 0.01
C3014 0.01
C3015 0.01
C3016 0.01
C3017 0.01

IC3001
C1AB00001979
(VIDEO PROCESSOR)

CLK MONI
SLICE DC
SYNC CR
SYN VCC
Y/V OUT A
LINE 3 OUT
SLICER VIDEO A
LINE 2 OUT
C OUT A
TEST2
Y/V OUT B
SW VCC1
SLICER VIDEO B
SGND
C OUT B
SW GND1
BL SW IN
DVCC2
BLSW OUT
BLGND
V/C SYNC OUT
SYNC DET OUT
SYN GND
SCL
SDA
CLKR
VREG
AV2 B IN
DRV VCCC3
DVD B/PB IN
TEST1
AV2 G IN
DET OUT B
DVD G/PY IN
VREF
AV2 R/C IN
DRV VCCC
DVD R/PR IN
DRV GND3
DVD C IN
DVCC1
DVD Y IN
DRV GND1
PY/G OUT
PY/G SAG
PR/R/C OUT
PR/R/C SAG
PB/B OUT
PB/B SAG
S1/S2 OUT
C75 OUT
V75 SAG
V75 OUT
Y75 SAG
Y75 OUT
DRV VCC1
C 3 IN
S1/S2 DET3
DRV GND2
Y 3 IN
BS TUNER
DGND2
TUNER
SW VCC2
VIDEO 1 IN
C/S DET1
Y 1 IN
DET OUT A
SI/S2 DET1
C 1 IN
DGND1
VIDEO 2 IN
C/S DET2
Y 2 IN
ADR
SI/S2 DET2
C 2 IN
SW GND2
VIDEO 3 IN
C/S DET3

IC3002
C1AB00001486
(SELECTOR SWITCH)

RGB Ⓗ
BUS
VCC
GND
C3065 0.01
C3066 1
C3067 1

IC3003
C9ZB00000377
(VIDEO BUFFER)

MUTE1
1.5-6M BPF
6M LPF
CLAMP
VCC
CLAMP
PY/CY
CLAMP
12M LPF
VCC
PB/CB
6M LPF
PR/CR
6M LPF
MUTE2
6dB
750hm
TEST
MIX
Y
PY/CY
PB/CB
PR/CR
C3038 0.1
C3039 1
C3040 0.01
C3041 6V220
C3042 1
C3045 6V47
C3046 6V47
R3048 1800
R3050 1800
C3047 0.1
C3048 6V1000
C3049 6V100
C3051 6V1000
C3052 6V100
C3053 6V1000
C3054 6V100
C3055 6V330
C3056 6V330

AV4
JK3001
K1U822B00003
REAR JACK
MIX L OUT2
A4 IN L
MIX R OUT2
A4 IN R
LB3005 J0JBC0000011
LB3006 J0JGC0000020
LB3007 J0JBC0000011
LB3008 J0JGC0000020
C3057 470P
C3058 470P
C3059 470P
C3060 470P
C3061 47P
C3062 47P
AV4 R IN
R OUT
AV4 L IN
L OUT
AV4 V IN
V OUT
AV4 CPN IN
CPN OUT
R3054 75
R3055 75
R3056 75
R3057 75
R3058 75
R3059 75
C3064 0.1

AN4 S IN L
CPS V OUT
CPN Y OUT
PY OUT
PB CBOUT
PR CROUT
G OUT
R/C OUT
B OUT
AU GND
GND

ZJ3001
K9ZZ00000424

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

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DMR-E85HEB/EG
Video I/O Section
(Main P.C.B.(3/5))
Schematic Diagram(V)

| Ref No. | IC1502 | | | | | | IC1505 | | | | | | | | | IC1506 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 |
| REC | 5.6 | 4.9 | 5.0 | 0 | 0 | | 5.2 | 0 | 0 | 3.6 | 5.7 | 0 | 0 | 5.7 | | 1.3 | 0 | 4.8 | 5.6 | 5.0 |
| PLAY | 5.6 | 4.9 | 5.0 | 0 | 0 | | 5.2 | 0 | 0 | 3.6 | 5.7 | 0 | 0 | 5.7 | | 1.3 | 0 | 4.8 | 5.6 | 5.0 |
| STOP | 5.6 | 4.9 | 5.0 | 0 | 0 | | 5.2 | 0 | 0 | 3.6 | 5.7 | 0 | 0 | 5.7 | | 1.3 | 0 | 4.8 | 5.6 | 5.0 |
| Ref No. | IC1507 | | | | | | | | | IC1508 | | | | | | IC1509 | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 |
| REC | 5.0 | 0 | 0 | 3.4 | 4.8 | 0 | 0 | 5.7 | | 5.7 | 4.8 | 3.3 | 0 | 0 | | 2.0 | 3.5 | 1.2 | 1.0 | 0 |
| PLAY | 5.0 | 0 | 0 | 3.4 | 4.8 | 0 | 0 | 5.7 | | 5.7 | 4.8 | 3.3 | 0 | 0 | | 2.0 | 3.5 | 1.2 | 1.0 | 0 |
| STOP | 5.0 | 0 | 0 | 3.4 | 4.8 | 0 | 0 | 5.7 | | 5.7 | 4.8 | 3.3 | 0 | 0 | | 2.0 | 3.5 | 1.2 | 1.0 | 0 |
| Ref No. | IC1510 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| REC | 1.5 | 0.8 | 3.5 | 3.5 | 0 | 0 | 2.0 | 2.0 | | | | | | | | | | | | |
| PLAY | 1.5 | 0.8 | 3.5 | 3.5 | 0 | 0 | 2.0 | 2.0 | | | | | | | | | | | | |
| STOP | 1.5 | 0.8 | 3.5 | 3.5 | 0 | 0 | 2.0 | 2.0 | | | | | | | | | | | | |
| Ref No. | IC3001 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 1.4 | 0 | 1.4 | 5.0 | 1.4 | 4.9 | 1.4 | 4.7 | 0.1 | 2.7 | 0 | 1.9 | 4.9 | 1.4 | 0 | 0.1 | 2.7 | 0 | 1.4 | 4.9 |
| PLAY | 1.4 | 0 | 1.4 | 5.0 | 1.4 | 4.9 | 1.4 | 4.7 | 0.1 | 2.7 | 0 | 1.9 | 4.9 | 1.4 | 0 | 0 | 2.7 | 0 | 1.4 | 4.9 |
| STOP | 1.4 | 0 | 1.4 | 5.0 | 1.4 | 4.9 | 1.4 | 4.7 | 0.1 | 2.7 | 0 | 1.9 | 4.9 | 1.4 | 0 | 0.1 | 2.7 | 0 | 1.4 | 4.9 |
| Ref No. | IC3001 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | 1.4 | 0 | 0.1 | 2.7 | 5.0 | 0.7 | 0.7 | 0.7 | 0.7 | 2.2 | 0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 0 | 1.4 | 5.0 |
| PLAY | 1.4 | 0 | 0.1 | 2.7 | 5.0 | 0.7 | 0.7 | 0.7 | 0.7 | 2.2 | 0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 0 | 1.4 | 5.0 |
| STOP | 1.4 | 0 | 0.1 | 2.7 | 5.0 | 0.7 | 0.7 | 0.7 | 0.7 | 2.2 | 0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 0 | 1.4 | 5.0 |
| Ref No. | IC3001 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| REC | 2.8 | 0 | 2.8 | 5.0 | 2.8 | 2.8 | 2.8 | 4.7 | 2.8 | 0 | 2.8 | 5.0 | 2.8 | 2.9 | 1.0 | 0 | 4.1 | 4.5 | 0 | 0.4 |
| PLAY | 2.8 | 0 | 2.8 | 5.0 | 2.8 | 2.8 | 2.8 | 4.7 | 2.8 | 0 | 2.8 | 5.0 | 2.8 | 2.9 | 1.0 | 0 | 4.1 | 4.5 | 0 | 0.4 |
| STOP | 2.8 | 0 | 2.8 | 5.0 | 2.8 | 2.8 | 2.8 | 4.7 | 2.8 | 0 | 2.8 | 5.0 | 2.8 | 2.9 | 1.0 | 0 | 4.2 | 4.5 | 0 | 0 |
| Ref No. | IC3001 | | | | | | | | | | | | | | | | | | | |
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| REC | 0 | 0.8 | 0.8 | 5.0 | 1.3 | 0 | 1.8 | 0 | 2.0 | 0 | 0.8 | 5.0 | 0.8 | 0 | 2.0 | 0 | 0 | 5.0 | 0 | 0 |
| PLAY | 0 | 0.8 | 0.8 | 5.0 | 1.3 | 0 | 1.9 | 0 | 2.1 | 0 | 0.8 | 5.0 | 0.8 | 0 | 2.0 | 0 | 0 | 5.0 | 0 | 0 |
| STOP | 0 | 0.9 | 0 | 5.0 | 0.9 | 0 | 0.9 | 0 | 2.1 | 0 | 0.8 | 5.0 | 0.7 | 0 | 2.0 | 0 | 0 | 5.0 | 0 | 0 |
| Ref No. | IC3002 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | |
| REC | 0 | 1.7 | 5.0 | 2.5 | 0 | 2.4 | | | | | | | | | | | | | | |
| PLAY | 0 | 1.7 | 5.0 | 2.5 | 0 | 2.4 | | | | | | | | | | | | | | |
| STOP | 0 | 1.7 | 5.0 | 2.5 | 0 | 2.4 | | | | | | | | | | | | | | |

| Ref No. | IC3003 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 2.1 | 5.0 | 2.7 | 0 | 2.6 | 5.0 | 0 | 2.6 | 0 | 2.0 | 5.0 | 2.8 | 0 | 2.8 | 5.0 | 2.2 | 2.3 | 0 | 2.3 | 0 |
| PLAY | 2.1 | 5.0 | 2.7 | 0 | 2.6 | 5.0 | 0 | 2.6 | 0 | 2.0 | 5.0 | 2.8 | 0 | 2.8 | 5.0 | 2.2 | 2.3 | 0 | 2.3 | 0 |
| STOP | 2.1 | 5.0 | 2.7 | 0 | 2.6 | 5.0 | 0 | 2.6 | 0 | 2.0 | 5.0 | 2.8 | 0 | 2.8 | 5.0 | 2.2 | 2.3 | 0 | 2.3 | 0 |
| Ref No. | IC3003 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | | | | | | | | |
| REC | 2.1 | 2.1 | 0 | 2.1 | 2.1 | 0 | 2.0 | 0 | 2.1 | 2.1 | 0 | 2.3 | | | | | | | | |
| PLAY | 2.1 | 2.1 | 0 | 2.1 | 2.2 | 0 | 2.0 | 0 | 2.1 | 2.1 | 0 | 2.3 | | | | | | | | |
| STOP | 2.1 | 2.2 | 0 | 2.2 | 2.2 | 0 | 2.0 | 0 | 2.1 | 2.1 | 0 | 2.3 | | | | | | | | |
| Ref No. | IC4001 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 0.3 | 4.5 | 4.5 | 0.3 | 0.3 | 4.6 | 4.6 | 3.4 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 0 | 4.5 | 0 | 4.5 | 0 | 4.5 |
| PLAY | 0.3 | 4.5 | 4.5 | 0.1 | 0.1 | 4.6 | 4.6 | 3.4 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 0 | 4.5 | 0 | 4.5 | 0 | 4.5 |
| STOP | 0.3 | 4.5 | 4.5 | 0.1 | 0.1 | 4.6 | 4.6 | 3.4 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 0 | 4.5 | 0 | 4.5 | 0 | 4.5 |
| Ref No. | IC4001 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | | | | | | | | |
| REC | 4.1 | 0 | 4.6 | 4.5 | 4.5 | 4.5 | 4.5 | 4.6 | 4.6 | 9.2 | 4.5 | 4.5 | | | | | | | | |
| PLAY | 4.1 | 0 | 4.6 | 4.5 | 4.5 | 4.5 | 4.5 | 4.6 | 4.6 | 9.2 | 4.5 | 4.5 | | | | | | | | |
| STOP | 4.2 | 0 | 4.6 | 4.5 | 4.5 | 4.5 | 4.5 | 4.6 | 4.6 | 9.2 | 4.5 | 4.5 | | | | | | | | |
| Ref No. | IC4005 | | | | | | | | | IC4006 | | | | IC4007 | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | | 1 | 2 | 3 | 4 | 5 | | |
| REC | 2.5 | 5.0 | 0 | 0 | 5.0 | 0 | 2.5 | 5.0 | | 2.5 | 5.0 | 0 | | 5.0 | 1.7 | 0 | 2.5 | 5.0 | | |
| PLAY | 2.5 | 5.0 | 0 | 0 | 5.0 | 0 | 2.5 | 5.0 | | 2.5 | 5.0 | 0 | | 5.0 | 1.7 | 0 | 2.5 | 5.0 | | |
| STOP | 2.5 | 5.0 | 0 | 0 | 5.0 | 0 | 2.5 | 5.0 | | 2.5 | 5.0 | 0 | | 5.0 | 1.8 | 0 | 2.5 | 5.0 | | |
| Ref No. | IC4009 | | | | | | | | | IC4010 | | | | | | IC4011 | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 |
| REC | 6.0 | 6.0 | 6.0 | 0 | 6.0 | 6.0 | 6.0 | 12.1 | | 13.5 | 4.8 | 12.1 | 0 | 0 | | 1.2 | 0 | 4.8 | 5.7 | 5.0 |
| PLAY | 6.0 | 6.0 | 6.0 | 0 | 6.0 | 6.0 | 6.0 | 12.1 | | 13.5 | 4.8 | 12.1 | 0 | 0 | | 1.2 | 0 | 4.8 | 5.7 | 5.0 |
| STOP | 6.0 | 6.1 | 6.1 | 0 | 6.1 | 6.1 | 6.1 | 12.1 | | 13.6 | 4.8 | 12.1 | 0 | 0 | | 1.2 | 0 | 4.8 | 5.7 | 5.0 |
| Ref No. | IC4012 | | | | | | | | | IC4013 | | | | IC7401 | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | | 1 | 2 | 3 | 4 | 5 | | |
| REC | 6.0 | 6.0 | 6.0 | 0 | 6.0 | 6.0 | 6.0 | 12.1 | | 9.2 | 0 | 12.1 | | 13.5 | 3.3 | 12.1 | 0 | 0 | | |
| PLAY | 6.0 | 6.0 | 6.0 | 0 | 6.0 | 6.0 | 6.0 | 12.1 | | 9.2 | 0 | 12.1 | | 13.5 | 3.3 | 12.1 | 0 | 0 | | |
| STOP | 6.1 | 6.1 | 6.1 | 0 | 6.0 | 6.1 | 6.1 | 12.1 | | 9.2 | 0 | 12.1 | | 13.6 | 3.3 | 12.1 | 0 | 0 | | |
| Ref No. | IC7402 | | | | | | | IC7403 | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | | 1 | 2 | 3 | 4 | 5 | | | | | | | | |
| REC | 5.5 | 0 | 5.5 | 1.2 | 0 | 5.0 | | 5.5 | 3.3 | 5.0 | 0 | 0 | | | | | | | | |
| PLAY | 5.5 | 0 | 5.5 | 1.2 | 0 | 5.0 | | 5.5 | 3.3 | 5.0 | 0 | 0 | | | | | | | | |
| STOP | 5.6 | 0 | 5.6 | 1.3 | 0 | 5.0 | | 5.6 | 3.3 | 5.0 | 0 | 0 | | | | | | | | |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 4.9 | 4.9 | 0 | 4.1 | 4.1 | 4.4 | 0 | 0 | - | - | 4.9 | - | 0 | - | 4.9 | 4.9 | 5.0 | 4.9 | 0.3 | 4.9 |
| PLAY | 4.9 | 4.9 | 0 | 4.1 | 4.1 | 4.4 | 0 | 0 | - | - | 4.9 | - | 0 | - | 4.9 | 4.9 | 5.0 | 4.9 | 0.3 | 4.9 |
| STOP | 4.9 | 4.9 | 0 | 4.1 | 4.1 | 4.4 | 0 | 0 | - | - | 4.9 | - | 0 | - | 4.9 | 4.9 | 5.0 | 4.9 | 0 | 4.9 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 | 4.1 | 0 | 1.8 | 1.7 | 0 | 4.9 | 0 | 0 | 0.3 | 0 | 5.0 | 4.9 |
| PLAY | 0 | 0 | 0 | 0 | 0 | 0 | 4.9 | 4.5 | 4.1 | 0 | 1.8 | 1.7 | 1.9 | 4.9 | 2.6 | 0 | 0.3 | 0.1 | 5.0 | 4.9 |
| STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.5 | 4.2 | 0 | 1.8 | 1.7 | 1.9 | 4.9 | 2.6 | 0 | 0 | 0.1 | 5.0 | 4.9 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| REC | 0 | 0 | 0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 0 | 0 | 0 | 4.9 | 0 | 0 | 4.9 | 4.9 | 0 | 0 | 0 |
| PLAY | 0 | 0 | 0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 0 | 0 | 0 | 4.9 | 0 | 0 | 4.9 | 4.9 | 0 | 0 | 0 |
| STOP | 0 | 0 | 0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 0 | 0 | 0 | 4.9 | 0 | 0 | 4.9 | 4.9 | 0 | 0 | 0 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| REC | 0 | 4.9 | 4.9 | 4.9 | 4.9 | 0 | 0 | 0 | 4.9 | 4.9 | 0 | 4.9 | 0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 4.9 |
| PLAY | 0 | 4.9 | 4.9 | 4.9 | 4.9 | 0 | 0 | 0 | 4.9 | 4.9 | 0 | 4.9 | 0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 4.9 |
| STOP | 0 | 4.9 | 4.9 | 4.9 | 4.9 | 0 | 0 | 0 | 4.9 | 4.9 | 0 | 4.9 | 0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 4.9 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| REC | 0 | 4.9 | 0 | 4.9 | 0 | 4.9 | 3.0 | 0 | 4.9 | 0 | 0 | 0 | 0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 2.3 | 0 |
| PLAY | 0 | 4.9 | 0 | 4.9 | 0 | 4.9 | 3.0 | 4.9 | 4.9 | 0 | 0 | 0 | 0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 2.3 | 5.0 |
| STOP | 0 | 4.9 | 0 | 4.9 | 0 | 4.9 | 3.0 | 4.9 | 4.9 | 0 | 0 | 0 | 0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 2.3 | 0 |
| Ref No. | IC7501 | | | | | | | | | | | | | | | | | | | |
| MODE | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | | | | |
| REC | 0.2 | 0.2 | 0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 2.0 | 1.3 | 0 | 4.9 | 2.0 | 0 | 0 | 4.9 | | | | |
| PLAY | 0.3 | 0.3 | 0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 2.0 | 1.3 | 0 | 4.9 | 2.0 | 0 | 0 | 4.9 | | | | |
| STOP | 0.2 | 0.2 | 0 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 1.1 | 1.3 | 0 | 4.9 | 1.1 | 0 | 0 | 4.9 | | | | |
| Ref No. | IC7502 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 4.9 | 3.0 | 4.4 | 4.1 | 0 | 2.2 | 2.2 | 4.9 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -25.4 | -25.4 | -22.3 | -28.6 | 4.9 | -28.6 | -25.4 |
| PLAY | 4.9 | 3.0 | 4.4 | 4.1 | 0 | 2.2 | 2.2 | 4.9 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -25.5 | -25.5 | -22.3 | -28.6 | 4.9 | -28.6 | -28.6 |
| STOP | 4.9 | 3.0 | 4.4 | 4.1 | 0 | 2.2 | 2.2 | 4.9 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -25.5 | -25.5 | -28.6 | 4.9 | -25.5 | -28.6 |
| Ref No. | IC7502 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | -28.6 | -28.6 | -28.6 | -22.2 | -25.4 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -16.0 | -16.0 | -19.1 | -19.2 | -22.3 | -22.3 | -19.1 | -22.3 |
| PLAY | -25.4 | -28.6 | -25.4 | -22.3 | -25.4 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -19.1 | -16.0 | -25.4 | -22.3 | -25.5 | -22.3 | -22.3 | -15.9 |
| STOP | -28.6 | -28.6 | -28.6 | -25.5 | -22.3 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -28.6 | -25.5 | -19.1 | -28.6 | -22.3 | -28.6 | -22.3 | -25.5 | -19.1 |
| Ref No. | IC7502 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| REC | -15.9 | -15.9 | -28.6 | -28.6 | -28.6 | -28.6 | -22.3 | -25.4 | -19.2 | -16.0 | -22.2 | -28.6 | -28.6 | -28.6 | -28.6 | -25.5 | -25.5 | -25.5 | -25.5 | -25.5 |
| PLAY | -19.1 | -19.1 | -28.6 | -28.6 | -28.6 | -25.4 | -22.3 | -25.5 | -19.2 | -16.0 | -22.3 | -28.6 | -28.6 | -28.6 | -28.6 | -25.5 | -25.5 | -25.5 | -25.5 | -25.5 |
| STOP | -25.5 | -15.9 | -28.6 | -28.6 | -28.6 | -28.7 | -22.3 | -25.5 | -22.3 | -19.2 | -22.3 | -28.6 | -28.6 | -28.6 | -28.7 | -25.5 | -25.5 | -25.5 | -25.6 | -25.5 |

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

IC6001
MN2DS0011-H
(AVDEC/MAIN CPU)

DMR-E85HEB/EG AV Decoder/Main CPU Section(Digital P.C.B.(4/5)) Schematic Diagram(MC)

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

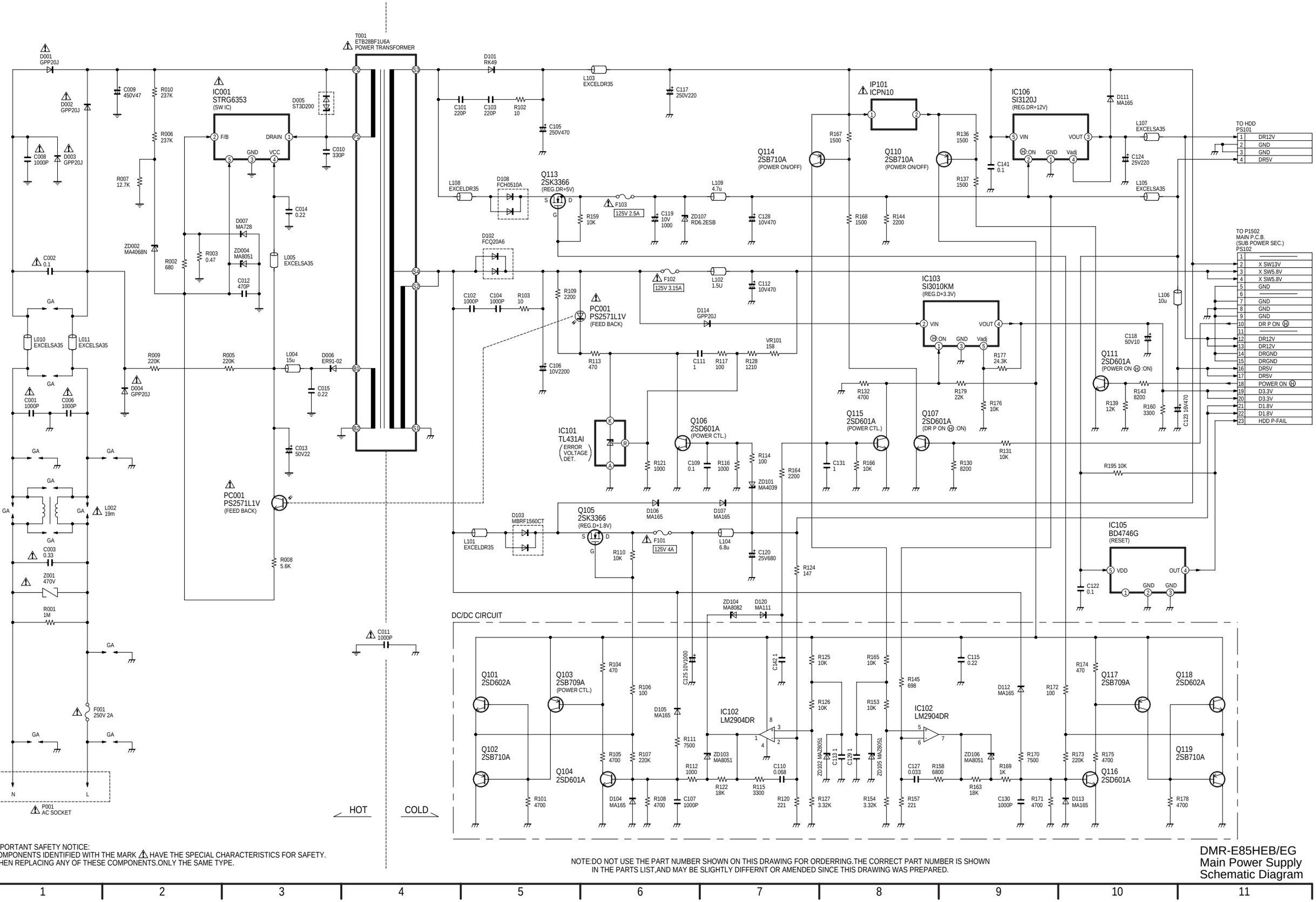
IC6001
MN2DS0011-H
(AVDEC/MAIN CPU)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E85HEB/EG AV Decoder/Main CPU Section(Digital P.C.B.(4/5)) Schematic Diagram(MC)

DMR-E85HEB/EG
AV Decoder/Main CPU Section
(Digital P.C.B.(4/5))
Schematic Diagram(MC)

14 15 16 17 18 19 20 21 22 23 24 25 26




IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

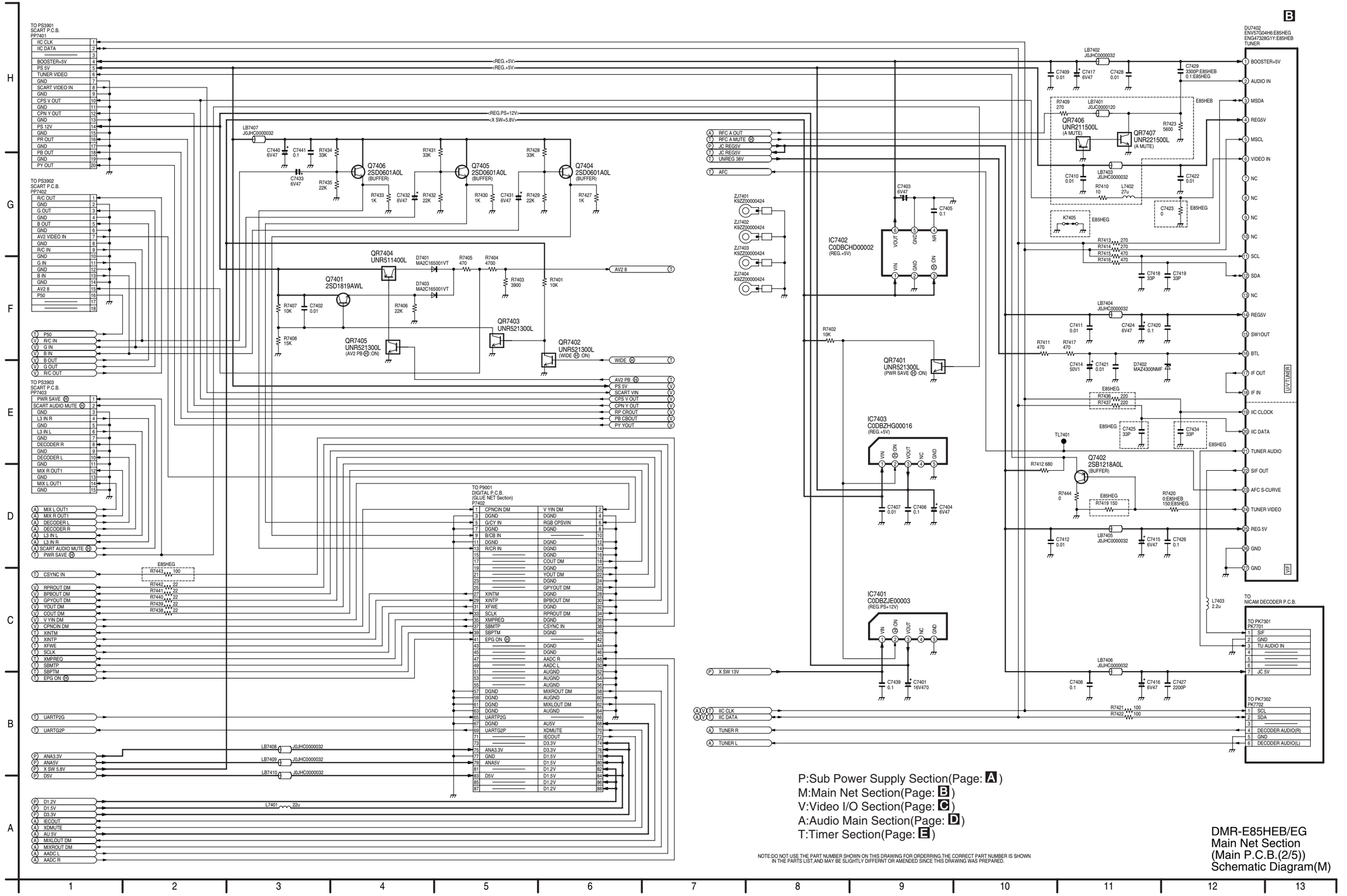
DMR-E85HEB/EG
Main Power Supply
Schematic Diagram

| Ref No. | IC7301 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 2.5 | 2.5 | 5.0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 0.2 | 0 | 0.1 | 0 | 1.6 | 1.5 | 0 | 0 | 2.0 | 0 | 0 |
| PLAY | 2.5 | 2.5 | 5.0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 0.3 | 0 | 0.3 | 0 | 1.6 | 1.5 | 0 | 0 | 2.0 | 0 | 0 |
| STOP | 2.5 | 2.5 | 5.0 | 0 | 0 | 4.9 | 0 | 0 | 0 | 0.3 | 0 | 0.2 | 0 | 1.6 | 1.5 | 0 | 0 | 2.0 | 0 | 0 |

| Ref No. | IC7301 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | 3.3 | 0 | 2.0 | 2.0 | 2.0 | 4.9 | 0 | 5.0 | 4.5 | 4.2 | 0.3 | 0.2 | 0.2 | 0.2 | 5.0 | 0 | 4.9 | 2.5 | 2.5 | 2.5 |
| PLAY | 3.3 | 0 | 2.0 | 2.0 | 2.0 | 4.9 | 0 | 5.0 | 4.5 | 4.2 | 0.3 | 0 | 0.2 | 0.2 | 5.0 | 0 | 4.9 | 2.5 | 2.5 | 2.5 |
| STOP | 3.3 | 0 | 2.0 | 2.0 | 2.0 | 4.9 | 0 | 5.0 | 4.5 | 4.2 | 0.3 | 0.3 | 0.3 | 0.2 | 5.0 | 0 | 4.9 | 2.5 | 2.5 | 2.5 |

| Ref No. | IC7301 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 41 | 42 | 43 | 44 | | | | | | | | | | | | | | | | |
| REC | 2.5 | 4.9 | 2.5 | 0 | | | | | | | | | | | | | | | | |
| PLAY | 2.5 | 4.9 | 2.5 | 0 | | | | | | | | | | | | | | | | |
| STOP | 2.5 | 4.9 | 2.5 | 0 | | | | | | | | | | | | | | | | |

| Ref No. | IC7302 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | | | | | | | | | | | | | | | | | |
| REC | 5.0 | 0 | 4.9 | | | | | | | | | | | | | | | | | |
| PLAY | 5.0 | 0 | 4.9 | | | | | | | | | | | | | | | | | |
| STOP | 5.0 | 0 | 4.9 | | | | | | | | | | | | | | | | | |




P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E85HEB/EG
Main Net Section
(Main P.C.B.(2/5))
Schematic Diagram(M)

POWER P.C.B.

MAIN P.C.B.

AC SOCKET
P001

F001
250V2A

Z001,L002
SURGE SUPPRESSOR AND SURGE ABSORBER

D001-D004
C009
RECTIFIER

T001
POWER TRANSFORMER

IC001
(SW IC)
F/B
DRAIN
Z/C
VCC

D101

IP101

Q110
Ⓛ:ON

D103

Q105
(REG.D+1.8V)

F101
125V 4A

D+1.8V
PS102 P1502
21,22

IC103
(REG.D+3.3V)
Ⓗ:ON
VIN
VOUT
Vadj

D106
D107

D+3.3V
PS102 P1502
19,20

D102

Q115

D120
ZD104

POWER ON Ⓗ
PS102 P1502
18

Q111
Ⓗ:ON

F102
125V 3.2A

X SW+5.8V
PS102 P1502
3,4

C011

Q114
Ⓛ:ON

DC-DC CIRCUIT
IC102
Q101-Q104
Q116-Q119

Q107
Ⓛ:ON

DR P ON Ⓗ
PS102 P1502
10
IC7501- 86

IC106
(REG.DR+12V)
VIN
Ⓗ:ON
VOUT
Vadj

DR+12V
PS102 P1502
12,13
P1501 P102
1,8
(TO DVD RAM DRIVE)

Q106

X SW+13V
PS102 P1502
2

IC101
(ERROR VOLTAGE DET.)

PC001
FEED BACK

D108

Q113
(REG.DR+5V)

F103
125V 2.5A

DR+5V
PS102 P1502
16,17
P1501 P102
4,5
(TO DVD RAM DRIVE)

PS101
1
PS101
4
TO HDD

Q105
(RESET)
VDD
OUT

HDD P-FAIL Ⓛ
PS102 P1502
23
IC7501- 75

HOT

COLD

DMR-E85HEB/EG
Power Supply Block Diagram

MAIN P.C.B.

DIGITAL P.C.B.

IC1509
(REG.D+1.2V)
VIN ① VB ② VOUT ③

IC1510
(REG.D+1.5V)
VIN ⑦ VIN ⑧ VB ③ CONT ④ VOUT ①

IC7505
(SYS PFAIL Ⓛ OUT)
VDD ② OUT ①

QR7502
(SYS PFAIL Ⓗ OUT)
Ⓗ:ON

Ⓐ D+1.8V

Ⓑ D+3.3V

IC7501- ㉛

REG.D+1.2V — P7402 | P9001 — 82,86,88 → IC6001(+1.2V)

REG.D+1.5V — P7402 | P9001 — 78,80,84 → IC3404/IC3501(+1.5V)

D+3.3V — P7402 | P9001 — 74,76 → IC3401/IC3402/IC3404/IC3408/IC3501/IC3502/IC4407/IC4408/IC6001/IC6002/IC6003/IC6004/IC6005/IC6006/IC50001/IC50002/IC6701/IC6703(+3.3V)

Ⓒ POWER ON Ⓗ

IC1508
(REG.ANA+3.3V)
VIN ① VOUT ③ Ⓗ:ON ②

Ⓓ X SW+5.8V

REG.ANA+5V — P7402 | P9001 — 79 → IC3401(+5V)

REG.ANA+3.3V — P7402 | P9001 — 75 → IC3401/IC3404/IC6001(+3.3V)

(Audio Main Sec.)

IC4011
(REG.AU+5V)
VIN ④ VOUT ⑤ Ⓗ:ON ③

REG.AU+5V — P7402 | P9001 — 68

IC4409
(REG.DAC+3.3V)
VIN ① VOUT ⑥ Ⓗ:ON ③

IC4404/IC4406(+3.3V)

IC4404/IC4405/IC4406(+5V)

(Timer Sec.)

IC7503
(RESET)
VDD ② OUT ①

IC7501- ㉚

IC1502
(REG.JC+5V)
VIN ① VOUT ③ Ⓗ:ON ②

JC REG+5V → DU7402- ⑭/㉕, IC3002- ③, IC3003- ⑥/⑪

JC P ON Ⓗ → IC7501- ㉙

IC1507
(REG.D+5V)
VIN ⑧ VOUT ① CONT ⑤

REG.D+5V — P7402 | P9001 — 83

IC4005- ⑧/IC4006- ②/IC4007- ①, ⑤

IC3409
(REG.D+3.3V)
VIN ③ VOUT ④ STBY ①

IC3406(+3.3V)

IC1506
(REG.ANA+5V)
VIN ④ VOUT ⑤ Ⓗ:ON ③

D7508

IC1505
(REG.XSW+5.2V)
VIN ⑧ VOUT ① CONT ⑤

N SW+5V → IC7501/IC7502/IC7504

N SW+5V → IC7501

IC7508
(RESET)
VDD ⑤ OUT ④

IC7501- ⑪

NICAM DECODER P.C.B.

IP7501 ① ②

T7501
(DISPLAY REG.)
④ ⑥

UNREG+38V → TO DU7402- ⑯

(Timer Sec.)

POWER ON Ⓗ → IC7501- ㉘

IC7301- ⑥/㉟

IC7302
(RESET)
VDD ① OUT ③

REG.JC+5V — PK7701 | PK7301 — 7

IC7301- ㉖

Ⓔ X SW+13V

IC7506- ⑧/Q7512- ②

IC4010
(REG.AU+12V)
VIN ① VOUT ③ Ⓗ:ON ②

IC4013
(REG.AU+9V)
VIN ③ VOUT ①

IC4001- ㉚

IC4009/IC4012- ⑧

(Audio Main Sec.)

IC7402
(REG.+5V)
VIN ① VOUT ⑥ Ⓗ:ON ③

DU7402- ①

BOOSTER +5V — PP7401 | PS3901 — 4 → IC3901- ㉙

PS+5V → IC3001(+5.0V)

E85HEB → DU7402- ④

IC7403
(REG.+5V)
VIN ① VOUT ③ Ⓗ:ON ②

REG.+5V — PP7401 | PS3901 — 5 → IC3901- ㉔

QR7401
Ⓗ:ON

PS+12V — PP7401 | PS3901 — 14 → IC3901- ⑭

IC7401
(REG.PS+12V)
VIN ① VOUT ③ Ⓗ:ON ②

PWR SAVE Ⓗ → IC7501- ㊽

SCART P.C.B.

(Main Net Sec.)

DMR-E85HEB/EG
Power Supply Block Diagram

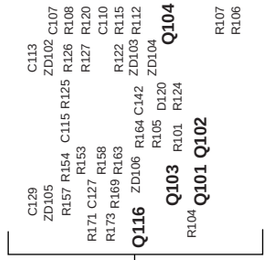
DMR-E85HEB/EG
Power Supply Block Diagram

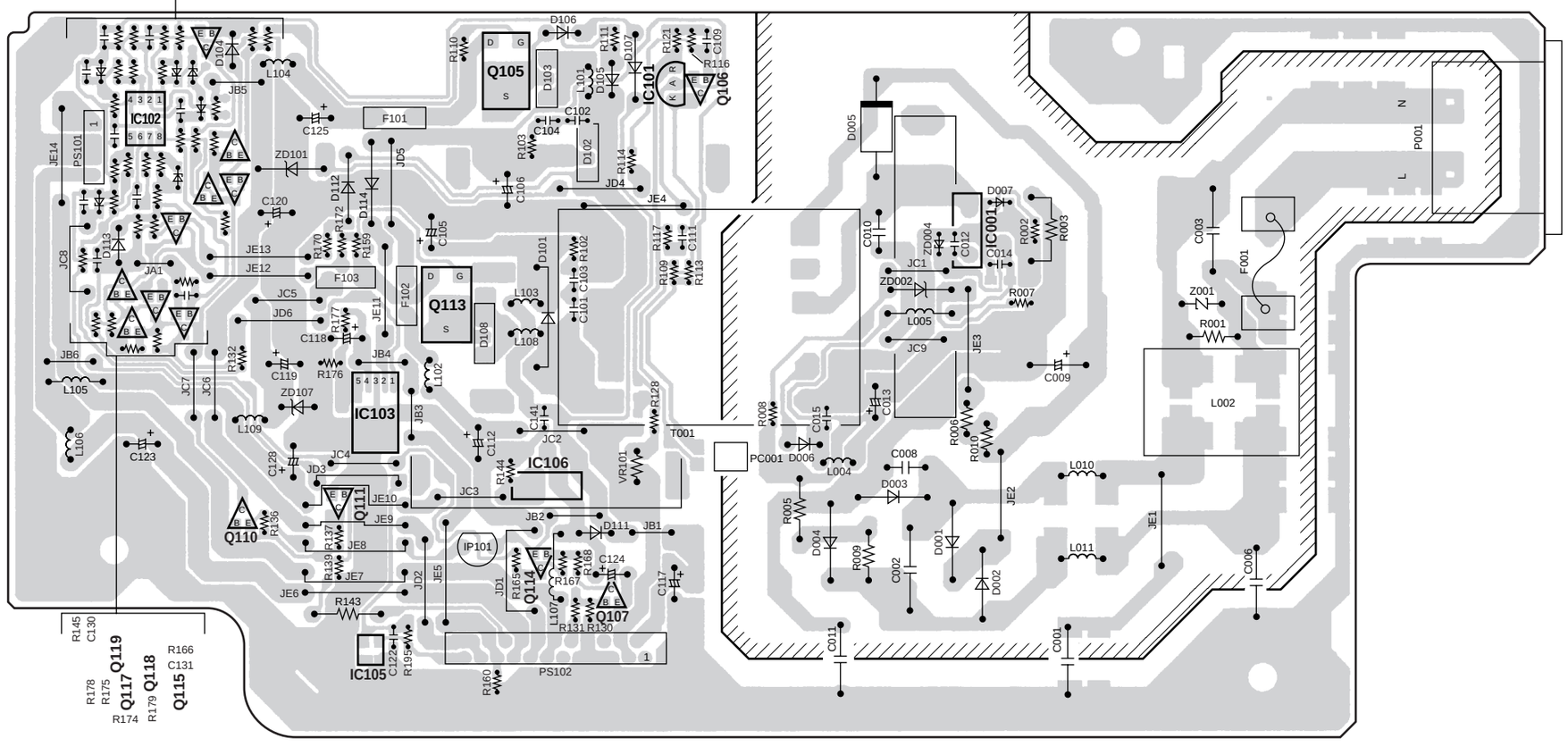
| Ref No. | IC1 | | | | | | IC101 | | | | IC102 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | | A | K | R | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| REC | -810 | 0.1 | 0 | 16.1 | 0.3 | | 0 | 4.3 | 2.4 | | 4.3 | 1.2 | 1.2 | 0 | 1.2 | 1.2 | 5.3 | 13.5 | |
| PLAY | -810 | 0.1 | 0 | 16.0 | 0.3 | | 0 | 4.3 | 2.4 | | 4.3 | 1.2 | 1.2 | 0 | 1.2 | 1.2 | 5.3 | 13.5 | |
| STOP | -810 | 0.1 | 0 | 16.0 | 0.3 | | 0 | 4.3 | 2.4 | | 4.4 | 1.2 | 1.2 | 0 | 1.2 | 1.2 | 5.3 | 13.6 | |
| Ref No. | IC103 | | | | | | IC105 | | | | | | IC106 | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 | | |
| REC | 2.3 | 5.1 | 0 | 3.5 | 1.0 | | 0 | 0 | 0 | 4.9 | 5.1 | | 0 | 5.1 | 12.0 | 12.0 | 13.6 | | |
| PLAY | 2.3 | 5.1 | 0 | 3.5 | 1.0 | | 0 | 0 | 0 | 4.9 | 5.1 | | 0 | 5.1 | 12.0 | 12.0 | 13.5 | | |
| STOP | 2.3 | 5.1 | 0 | 3.5 | 1.0 | | 0 | 0 | 0 | 4.9 | 5.1 | | 0 | 5.1 | 12.0 | 12.0 | 13.7 | | |
| Ref No. | Q101 | | | | Q102 | | | Q103 | | | | Q104 | | | | Q105 | | | |
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | S | D | G |
| REC | 8.6 | 13.6 | 8.7 | | 8.5 | 0 | 8.7 | | 13.5 | 8.7 | 13.1 | | 0 | 4.9 | 0.4 | | 3.7 | 2.2 | 8.6 |
| PLAY | 8.5 | 13.5 | 8.6 | | 8.5 | 0 | 8.5 | | 13.5 | 8.6 | 13.0 | | 0 | 4.9 | 0.4 | | 3.7 | 2.2 | 8.5 |
| STOP | 8.6 | 13.5 | 8.6 | | 8.5 | 0 | 8.6 | | 13.5 | 8.6 | 13.0 | | 0 | 4.9 | 0.4 | | 3.7 | 2.2 | 8.6 |
| Ref No. | Q106 | | | | Q107 | | | Q110 | | | | Q111 | | | | Q113 | | | |
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | S | D | G |
| REC | 0 | 4.3 | 0 | | 0 | 0.1 | 0.7 | | 13.5 | 13.6 | 12.8 | | 0 | 0.1 | 0.7 | | 7.1 | 5.1 | 8.5 |
| PLAY | 0 | 4.3 | 0 | | 0 | 0.1 | 0.7 | | 13.5 | 13.5 | 12.8 | | 0 | 0.1 | 0.7 | | 7.1 | 5.1 | 8.5 |
| STOP | 0 | 4.3 | 0 | | 0 | 0.1 | 0.7 | | 13.5 | 13.7 | 12.9 | | 0 | 0.1 | 0.7 | | 7.1 | 5.1 | 8.5 |
| Ref No. | Q114 | | | | Q115 | | | Q116 | | | | Q117 | | | | Q118 | | | |
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| REC | 13.5 | 13.6 | 12.9 | | 0 | 2.3 | 0 | | 0 | 4.9 | 0.4 | | 13.6 | 8.5 | 13.0 | | 8.5 | 13.6 | 8.5 |
| PLAY | 13.5 | 13.5 | 12.8 | | 0 | 2.3 | 0 | | 0 | 4.9 | 0.4 | | 13.5 | 8.4 | 13.0 | | 8.4 | 13.5 | 8.4 |
| STOP | 13.5 | 13.5 | 12.8 | | 0 | 2.3 | 0 | | 0 | 4.9 | 0.4 | | 13.5 | 8.4 | 13.0 | | 8.4 | 13.5 | 8.4 |
| Ref No. | Q119 | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | | | | | | | | | | | | | | | |
| REC | 8.4 | 0 | 8.5 | | | | | | | | | | | | | | | | |
| PLAY | 8.4 | 0 | 8.5 | | | | | | | | | | | | | | | | |
| STOP | 8.4 | 0 | 8.4 | | | | | | | | | | | | | | | | |

# Power P.C.B.

**Power P.C.B.**

| Integrated Circuit | | Connector | | ZD2 | C-5 | L106 | B-1 | C103 | C-3 | Resistor | | R117 | B-4 | R166 | C-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IC1 | C-5 | P1 | D-7 | ZD4 | C-4 | L107 | B-3 | C104 | D-3 | R1 | C-6 | R120 | D-2 | R167 | B-3 |
| IC101 | D-4 | PS101 | C-1 | ZD101 | C-2 | L108 | C-3 | C105 | C-3 | R2 | C-5 | R121 | D-4 | R168 | B-3 |
| IC102 | D-2 | PS102 | A-3 | ZD102 | D-1 | L109 | B-2 | C106 | C-3 | R3 | C-5 | R122 | D-2 | R169 | C-2 |
| IC103 | B-3 | Diode | | ZD103 | D-2 | Fuse | | C107 | D-1 | R5 | B-4 | R124 | D-2 | R170 | C-2 |
| IC105 | A-2 | D1 | B-5 | ZD104 | D-2 | F1 | C-6 | C109 | D-4 | R6 | B-5 | R125 | D-1 | R171 | C-2 |
| IC106 | B-3 | D2 | B-5 | ZD105 | C-1 | F101 | D-3 | C110 | D-2 | R7 | C-5 | R126 | D-1 | R172 | C-2 |
| | | D3 | B-5 | ZD106 | C-2 | F102 | C-3 | C111 | B-4 | R8 | B-4 | R127 | D-2 | R173 | C-2 |
| Transistor | | D4 | B-4 | ZD107 | B-2 | F103 | C-2 | C112 | B-3 | R9 | B-4 | R128 | B-4 | R174 | C-2 |
| Q101 | C-2 | D5 | D-4 | | | | | C113 | D-1 | R10 | B-5 | R130 | B-3 | R175 | C-1 |
| Q102 | C-2 | D6 | B-4 | | | | | C115 | D-1 | R101 | C-2 | R131 | B-3 | R176 | B-2 |
| Q103 | C-2 | D7 | C-5 | IC Protector | | Capacitor | | C117 | B-4 | R102 | C-3 | R132 | C-2 | R177 | C-2 |
| Q104 | D-2 | D101 | C-3 | IP101 | B-3 | C1 | A-5 | C118 | C-2 | R103 | C-3 | R136 | B-2 | R178 | C-1 |
| Q105 | D-3 | D102 | C-3 | Transformer | | C2 | B-5 | C119 | C-2 | R104 | C-2 | R137 | B-2 | R179 | C-2 |
| Q106 | D-4 | D103 | D-3 | T1 | B-4 | C3 | C-6 | C120 | C-2 | R105 | D-2 | R139 | B-2 | R195 | A-3 |
| Q107 | B-3 | D104 | D-2 | Coil | | C6 | B-6 | C122 | A-3 | R106 | D-2 | R143 | B-2 | VR101 | B-4 |
| Q110 | B-2 | D105 | D-3 | L2 | B-6 | C8 | B-5 | C123 | B-2 | R107 | D-2 | R144 | B-3 | | |
| Q111 | B-2 | D106 | D-3 | L4 | B-4 | C9 | C-5 | C124 | B-3 | R108 | D-1 | R145 | C-1 | | |
| Q113 | C-3 | D107 | D-4 | L5 | C-5 | C10 | C-5 | C125 | D-2 | R109 | C-4 | R153 | C-2 | | |
| Q114 | B-3 | D108 | C-3 | L10 | B-5 | C11 | A-4 | C127 | C-2 | R110 | D-2 | R154 | C-1 | | |
| Q115 | C-2 | D111 | B-3 | L11 | B-5 | C12 | C-5 | C128 | B-2 | R111 | D-3 | R157 | C-1 | | |
| Q116 | C-2 | D112 | C-2 | L101 | D-3 | C13 | B-4 | C129 | C-1 | R112 | D-2 | R158 | C-2 | | |
| Q117 | C-2 | D113 | C-1 | L102 | C-3 | C14 | C-5 | C130 | C-1 | R113 | C-4 | R159 | C-2 | | |
| Q118 | C-2 | D114 | C-2 | L103 | C-3 | C15 | B-4 | C131 | C-2 | R114 | C-3 | R160 | A-3 | | |
| Q119 | C-1 | D120 | D-2 | L104 | D-2 | C101 | C-3 | C141 | B-3 | R115 | D-2 | R163 | C-2 | | |
| PC1 | B-4 | Z1 | C-6 | L105 | C-1 | C102 | D-3 | C142 | D-2 | R116 | C-4 | R164 | D-2 | | |




DMR-E85HEB/EG
Power P.C.B.
(ETXMM507E4F)

TO PP7401
MAIN P.C.B.
(MAIN NET SEC.)
PS3901

| | | |
|---|---|---|
| IIC CLK | 1 | B1 |
| IIC DATA | 2 | B2 |
| | 3 | |
| BOOSTER+5V | 4 | |
| PS 5V | 5 | |
| TUNER VIDEO | 6 | B3 |
| GND | 7 | |
| SCART VIDEO IN | 8 | B4 |
| GND | 9 | |
| CPS V OUT | 10 | B5 |
| GND | 11 | |
| CPN Y OUT | 12 | B6 |
| GND | 13 | |
| PS 12V | 14 | |
| GND | 15 | |
| PR OUT | 16 | B7 |
| GND | 17 | |
| PB OUT | 18 | B8 |
| GND | 19 | |
| PY OUT | 20 | B9 |

R3914 150
R3919 150

TO PP7402
MAIN P.C.B.
(MAIN NET SEC.)
PS3902

| | | |
|---|---|---|
| R/C OUT | 1 | A1 |
| GND | 2 | |
| G OUT | 3 | A2 |
| GND | 4 | |
| B OUT | 5 | A3 |
| GND | 6 | |
| AV2 VIDEO IN | 7 | A4 |
| GND | 8 | |
| R/C IN | 9 | A5 |
| GND | 10 | |
| G IN | 11 | A6 |
| GND | 12 | |
| B IN | 13 | A7 |
| GND | 14 | |
| AV2 8 | 15 | A8 |
| P50 | 16 | A9 |
| | 17 | B10 |
| | 18 | B11 |

TO PP7403
MAIN P.C.B.
(MAIN NET SEC.)
PS3903

| | | |
|---|---|---|
| PWR SAVE (H) | 1 | B12 |
| SCART AUDIO MUTE (H) | 2 | B13 |
| GND | 3 | |
| L3 IN R | 4 | A10 |
| GND | 5 | |
| L3 IN L | 6 | A11 |
| GND | 7 | |
| DECODER R | 8 | B14 |
| GND | 9 | |
| DECODER L | 10 | B15 |
| GND | 11 | |
| MIX R OUT1 | 12 | B16 |
| GND | 13 | |
| MIX L OUT1 | 14 | B17 |
| GND | 15 | |

LB3922 J0JGC0000020
LB3923 J0JGC0000020
LB3925 J0JGC0000020

IC3901
C1AB00001776
(A/V BUFFER AND SWITCH)

<BOOSTER+5V>
<PS+5V>
<PS+12V>

C3920 0.1
C3921 6V330
C3923 0.1
C3924 6V330
C3918 16V10
C3919 16V10
C3922 0.01
C3925 0.01
R3908 470
R3909 470
C3910 16V10
C3911 16V10
C3914 50V1
C3915 50V1
C3916 50V1
C3917 50V1
R3980 470
R3979 470

GAIN CTL (0,2,4,6dB)
100K
AMP
BUF
LPF
EXTEMAL CONTROL4
ALWAYS VCC (5V±0.5V)
CLAMP
75 DR
9dB AMP
CONTROL VCC (5V±0.5V)

AUDIO SWITCH Rch
AUDIO SWITCH Lch
SW1R
SW2R
SW3R
SW1L
SW2L
SW3L
A
B
C
D
MUTE
Rch
Lch
OR
SERIAL CONTROL
VIDEO SWITCH
SW1
SW2
SW3

EXT MUTE CONTROL
(HLCH ◄► SW3B)
OPEN LOW ◄► NORMAL1

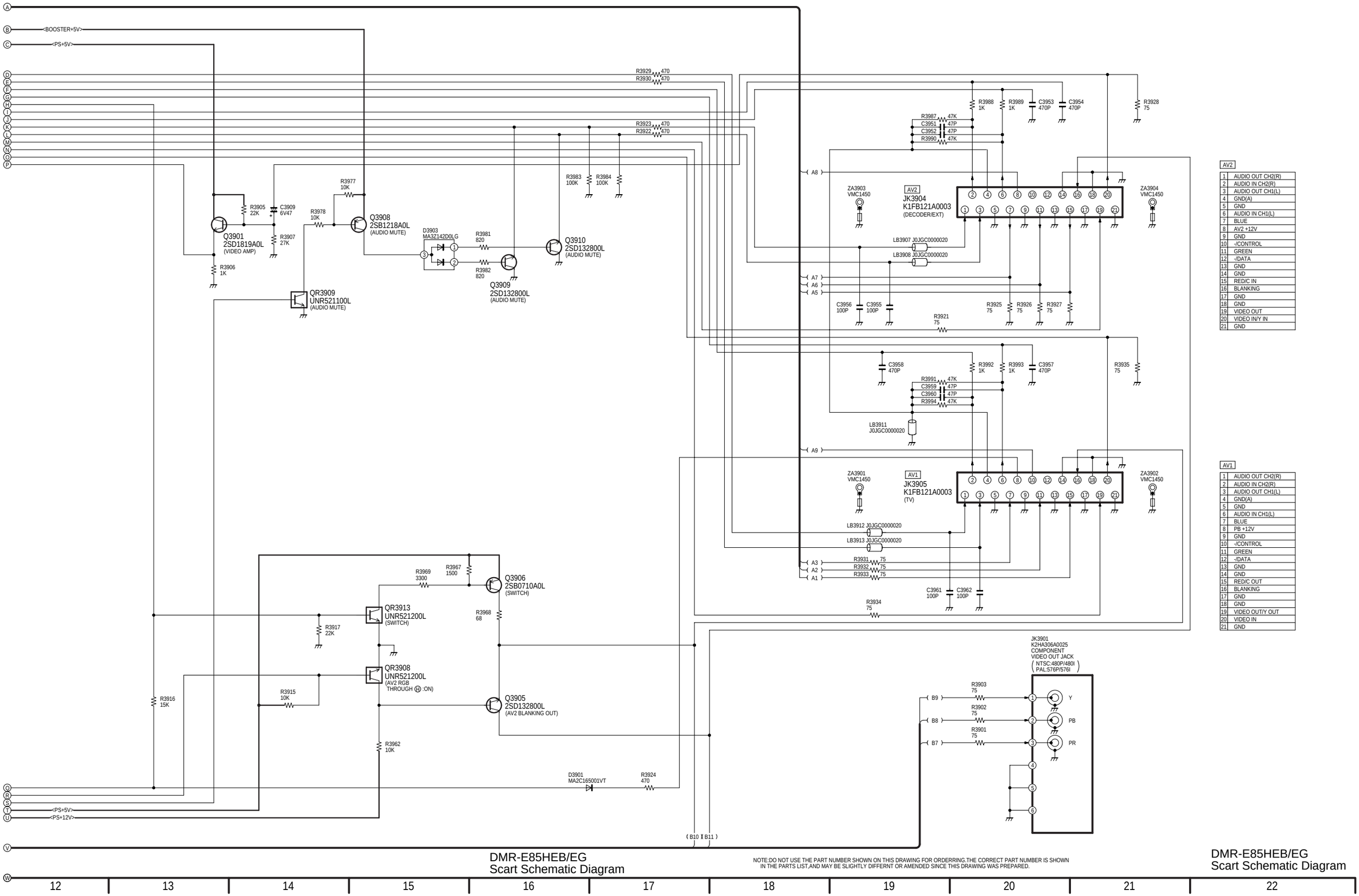
AUDIO R
AUDIO L
R
L
SDA
SCL

C3928 50V1
C3929 50V1
R3972 10K
R3973 10K
R3904 33
C3930 0.01
R3911 2200
R3912 2200
C3931 50V1
C3932 50V1
C3933 16V100
C3934 0.01
C3939 0.01
R3975 100
R3976 100
C3935 16V100
C3938 0.1
R3985 4700
R3910 150
R3913 180
R3986 1200

AV2 THROUGH (L)
Y/C(H)
EXTEMAL CONTROL1
EXTEMAL CONTROL2
GAIN CTL (0.6dB)
POWER SAVE
(HLCH ◄► SW3B)
OPEN LOW ◄► NORMAL1
VIDEO SW3
10V REG
TO AUDIO VCC
VCC 12V (12V±0.5V)
TO REF DC
BLANKING (L)
EXTEMAL CONTROL3
FSS CONTROL TERMINAL (L.M.H)
DATA CLOCK INTERFACE BLOCK

(A10) (A11) (A4)
(B16) (B17) (B4) (B5) (B12) (B13) (B6) (B14) (B15) (B3) (B2) (B1)

DMR-E85HEB/EG
Scart Schematic Diagram



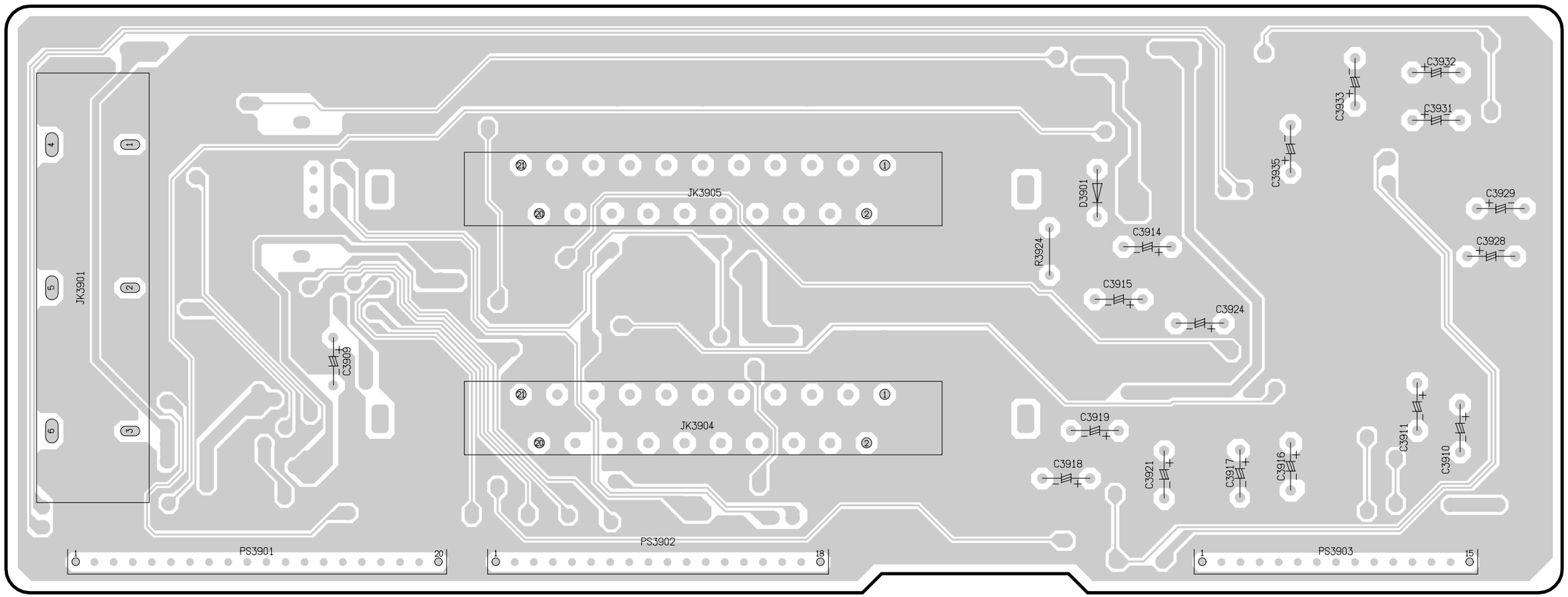

DMR-E85HEB/EG
Scart Schematic Diagram

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E85HEB/EG
Scart Schematic Diagram

| Scart P.C.B.(Component Side) | | | |
|---|---|---|---|
| **Diode** | | **Capacitor** | |
| D3901 | C-7 | C3916 | A-8 |
| **Connector** | | C3917 | A-8 |
| JK3901 | B-1 | C3918 | A-7 |
| JK3904 | B-5 | C3919 | B-7 |
| JK3905 | C-5 | C3921 | A-7 |
| PS3901 | A-2 | C3924 | B-7 |
| PS3902 | A-4 | C3928 | C-9 |
| PS3903 | A-8 | C3929 | C-9 |
| **Capacitor** | | C3931 | C-9 |
| C3909 | B-3 | C3932 | D-9 |
| C3910 | B-9 | C3933 | D-8 |
| C3911 | B-9 | C3935 | C-8 |
| C3914 | C-7 | **Resisitor** | |
| C3915 | B-7 | R3924 | C-7 |

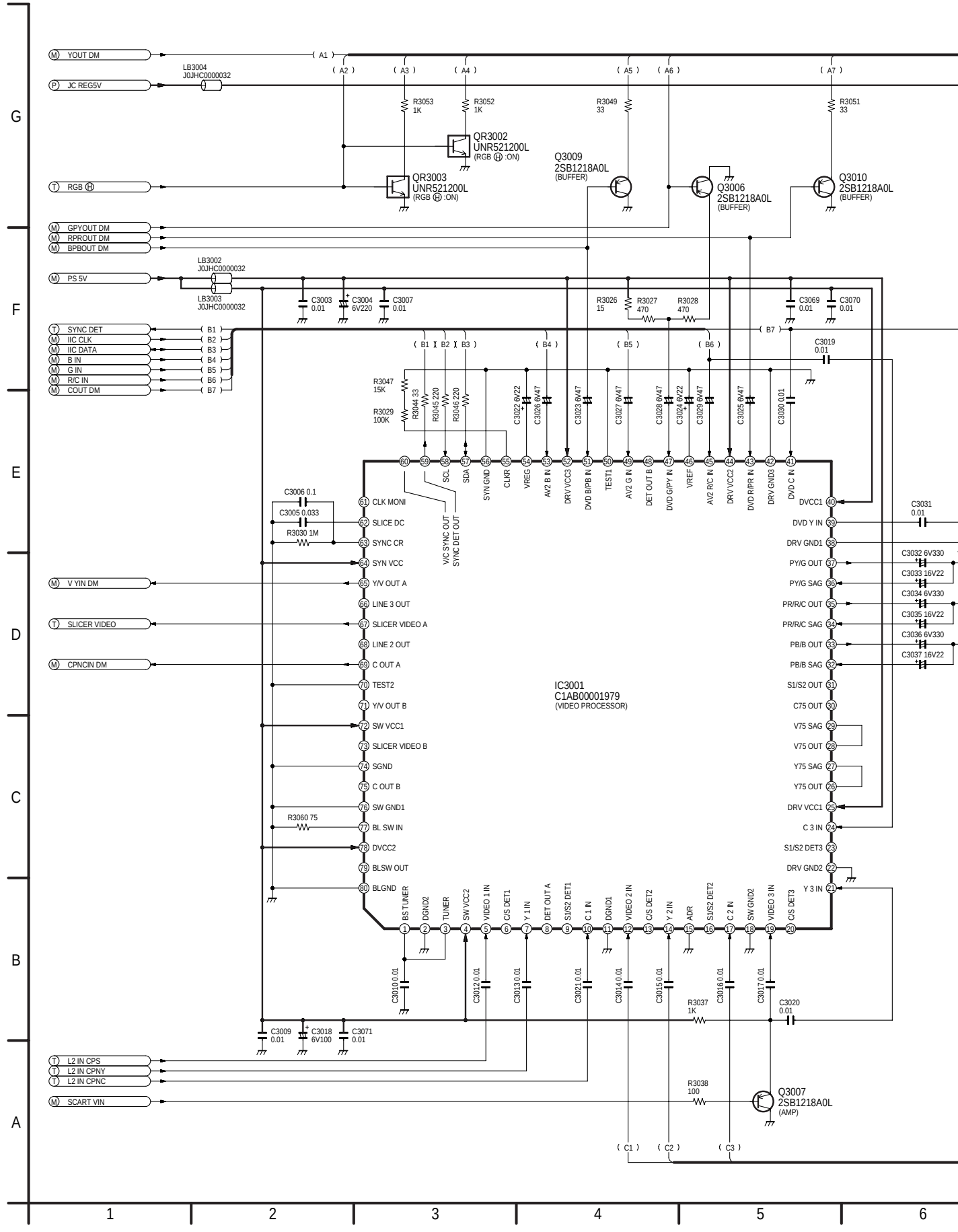
## Scart P.C.B.

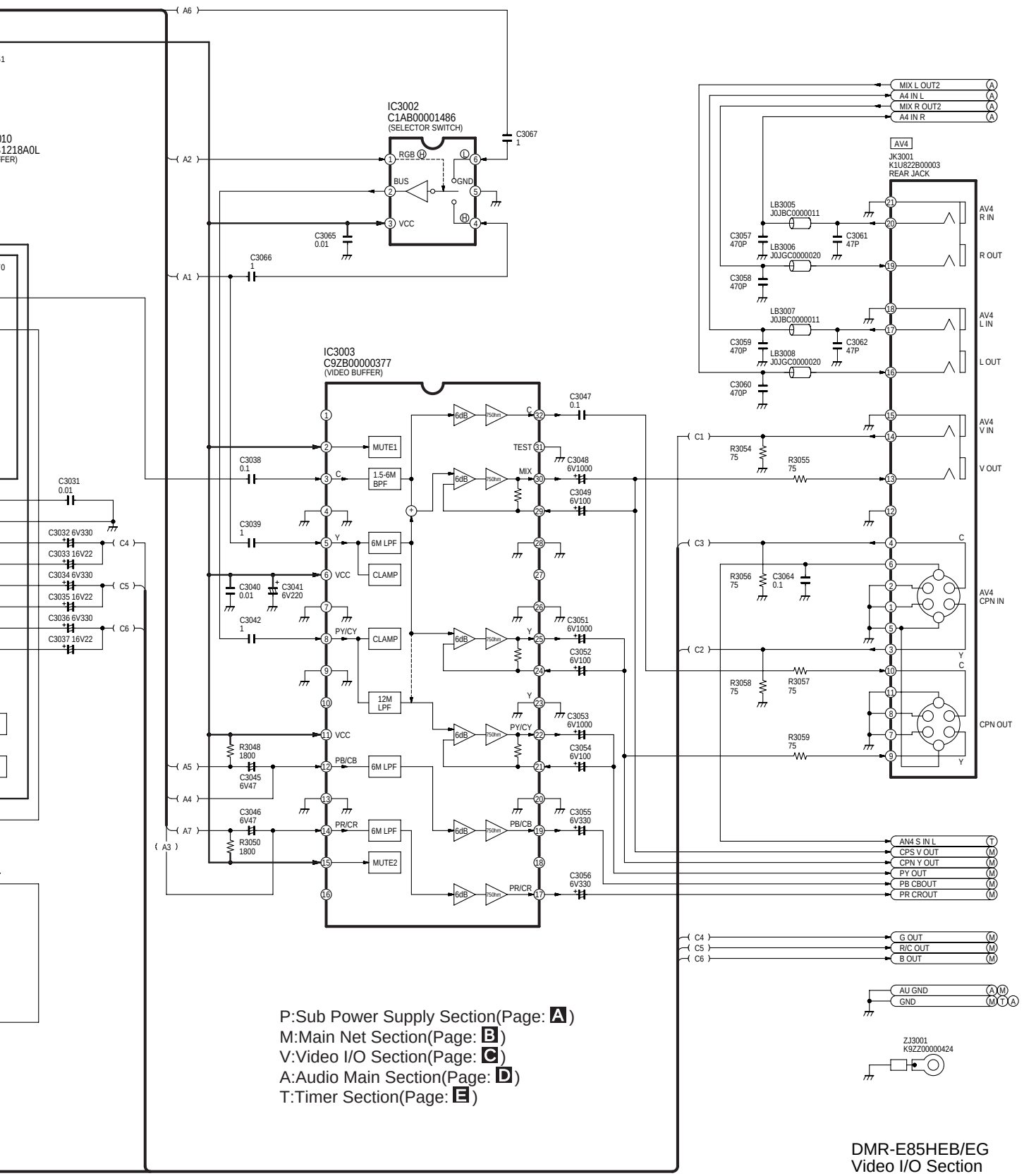



**(COMPONENT SIDE)**

DMR-E85HEB/EG
Scart P.C.B. (Component Side)
(REP3682A)

# 17.5. Video I/O Section (Main P.C.B. (3/5)) Schematic Diagram (V)





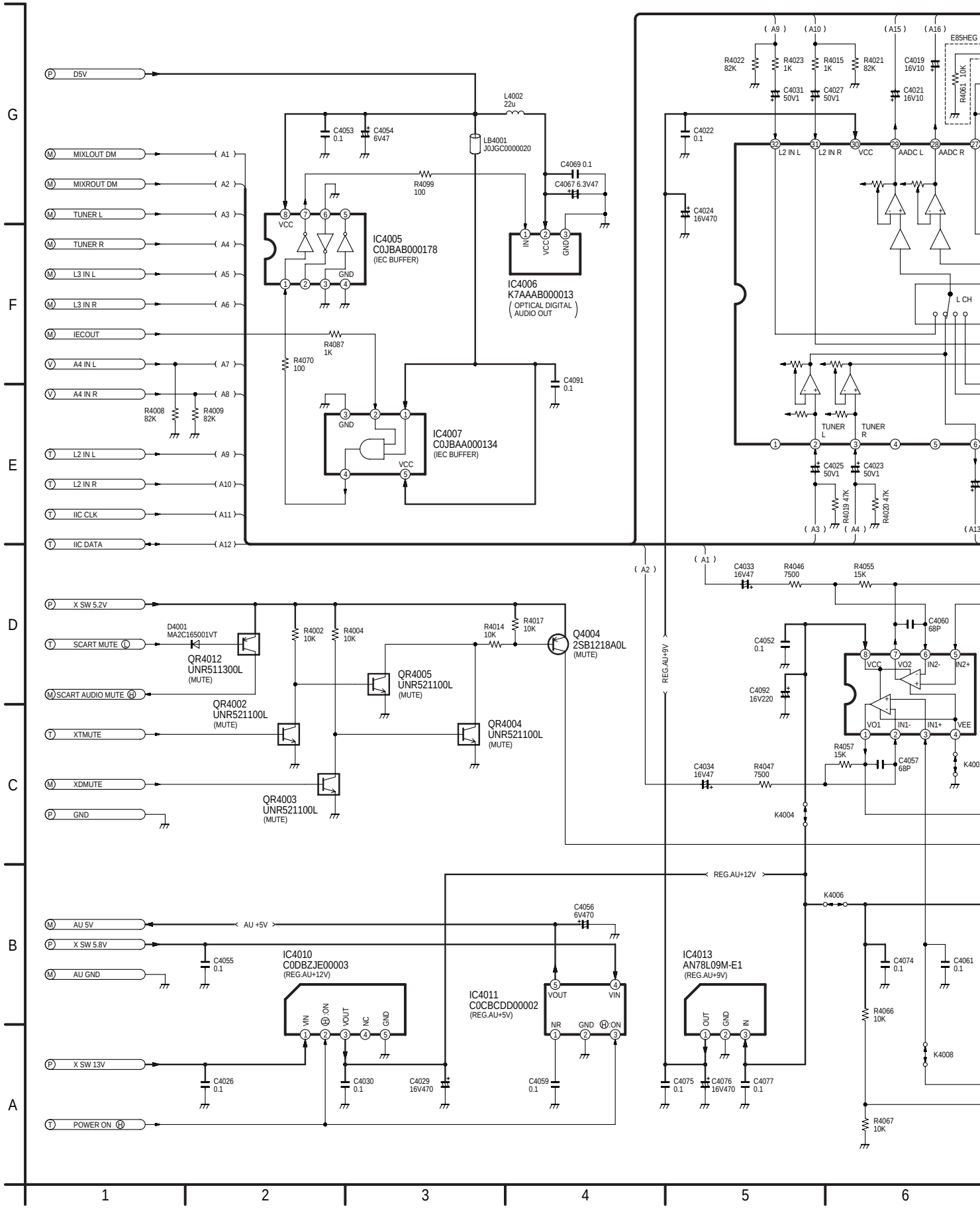

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

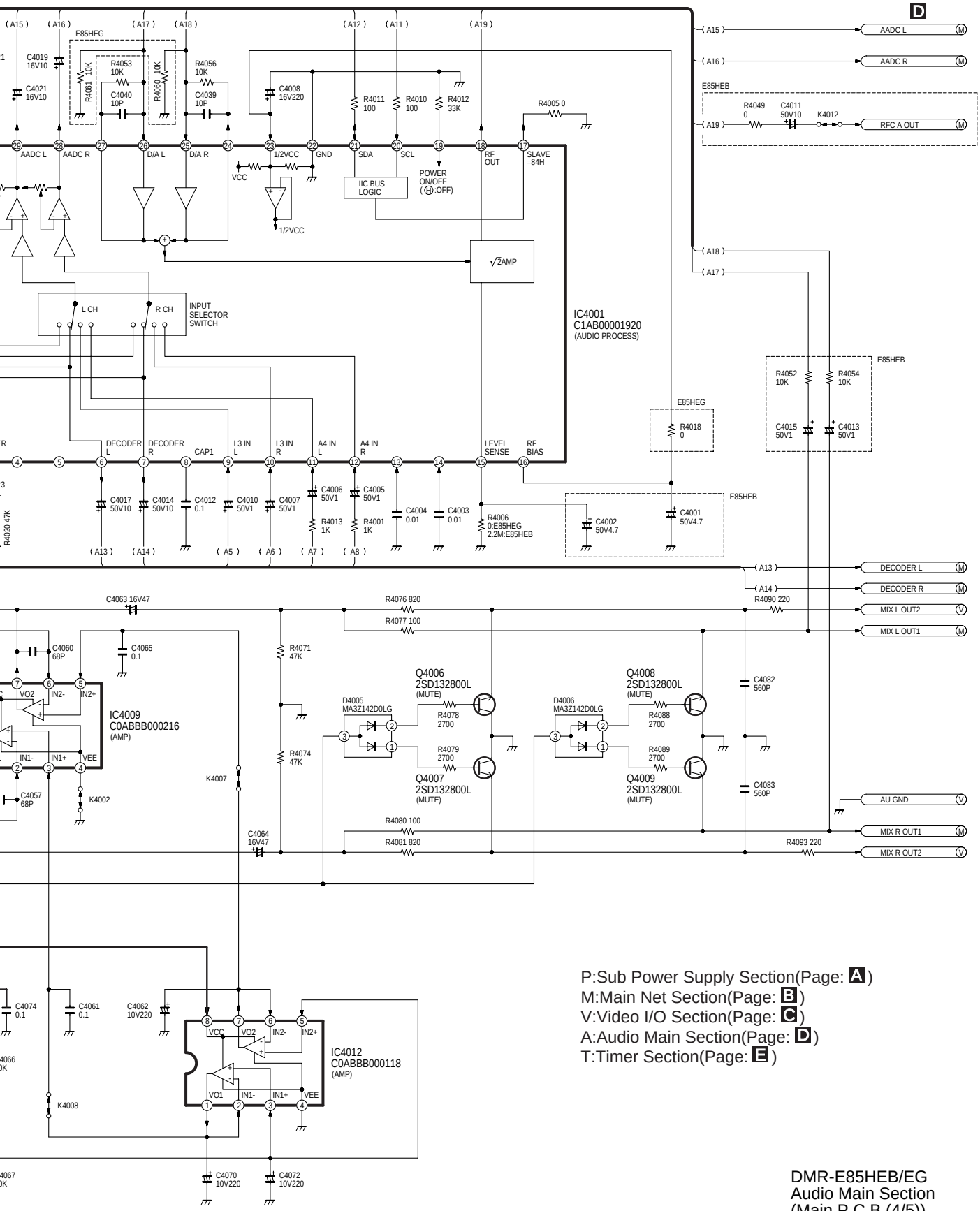
DMR-E85HEB/EG
Video I/O Section
(Main P.C.B.(3/5))
Schematic Diagram(V)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

6 | 7 | 8 | 9 | 10 | 11

# 17.6. Audio Main Section (Main P.C.B. (4/5)) Schematic Diagram (A)





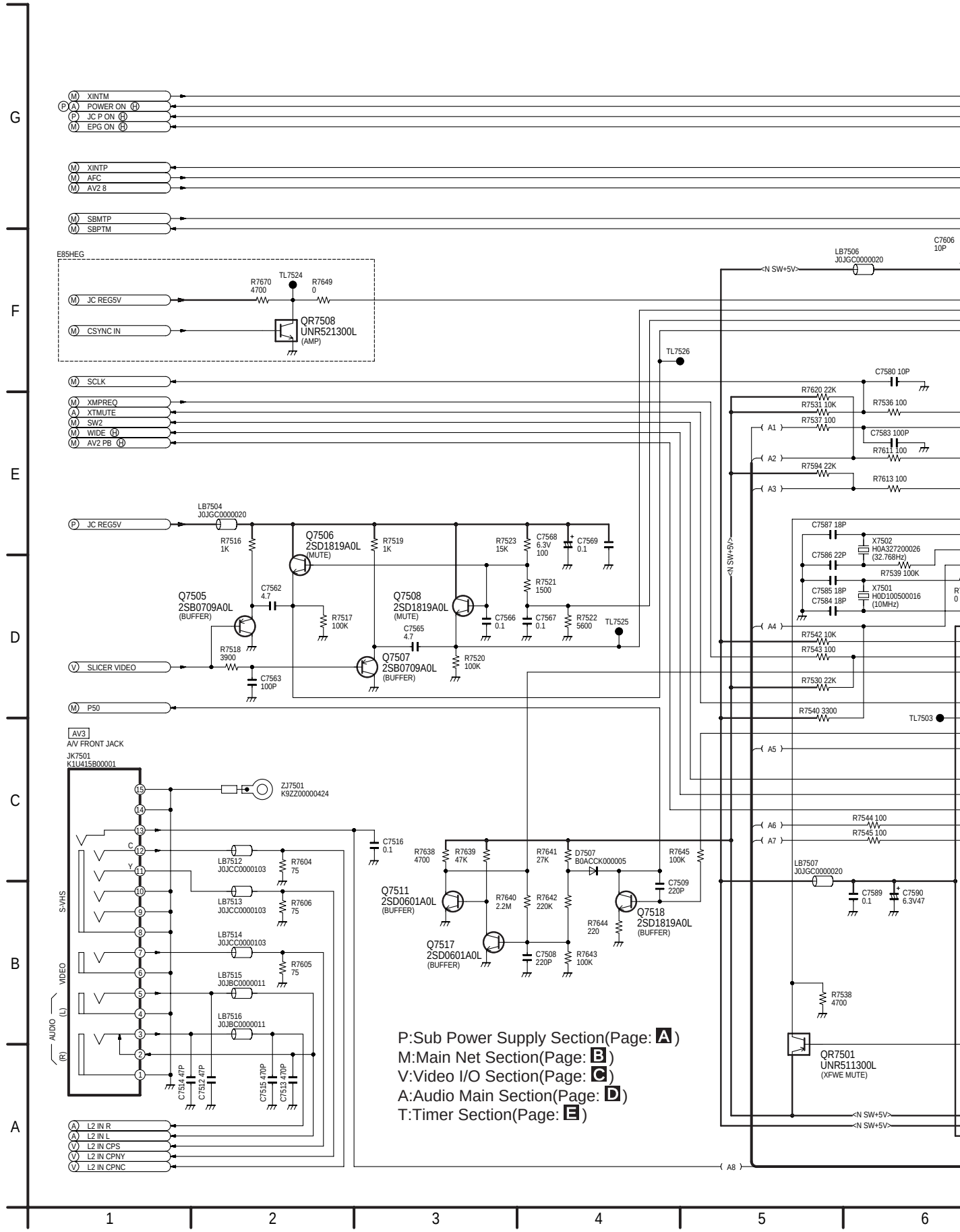

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

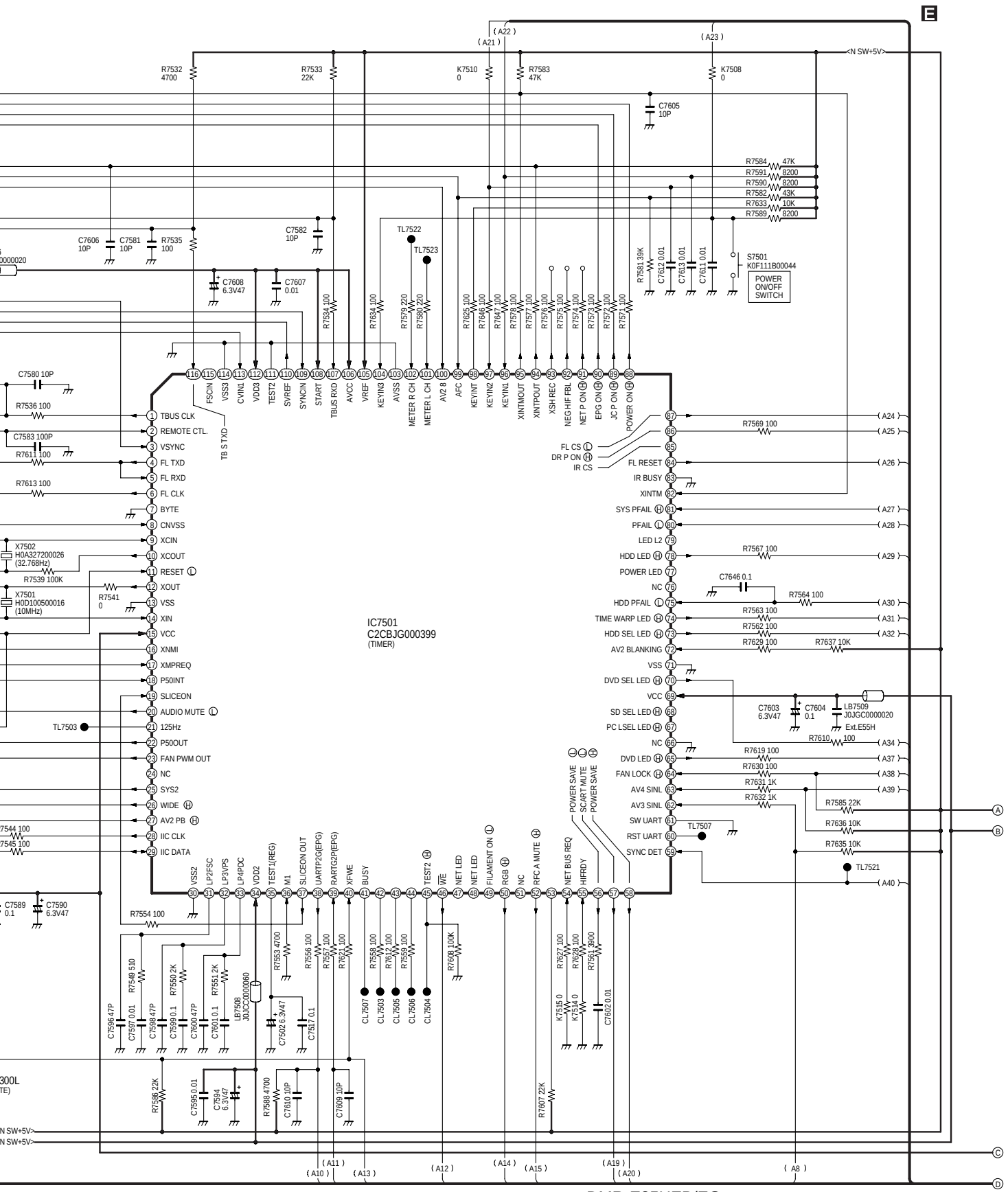
DMR-E85HEB/EG
Audio Main Section
(Main P.C.B.(4/5))
Schematic Diagram(A)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

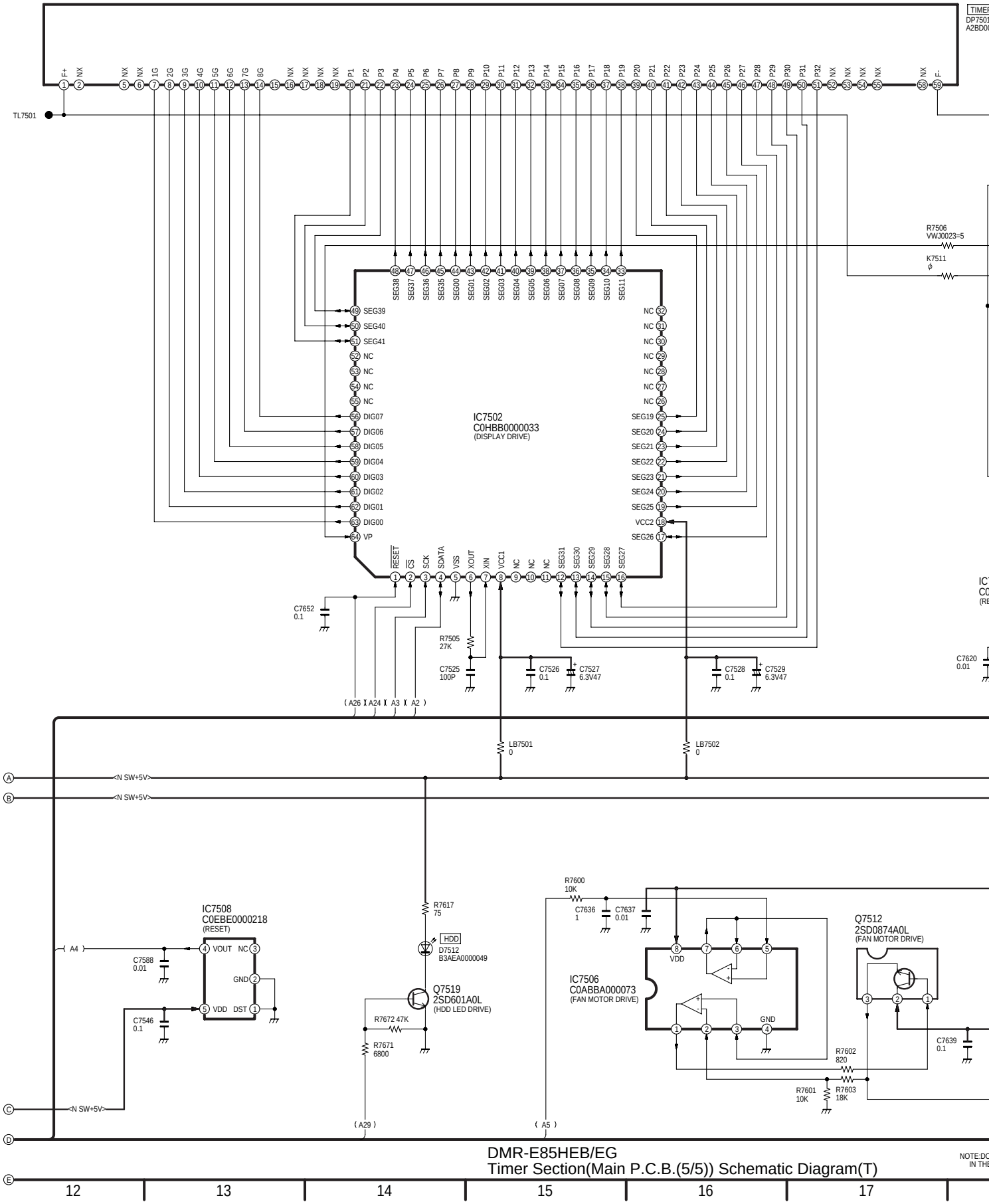
6 | 7 | 8 | 9 | 10 | 11

# 17.7. Timer Section (Main P.C.B. (5/5)) Schematic Diagram (T)

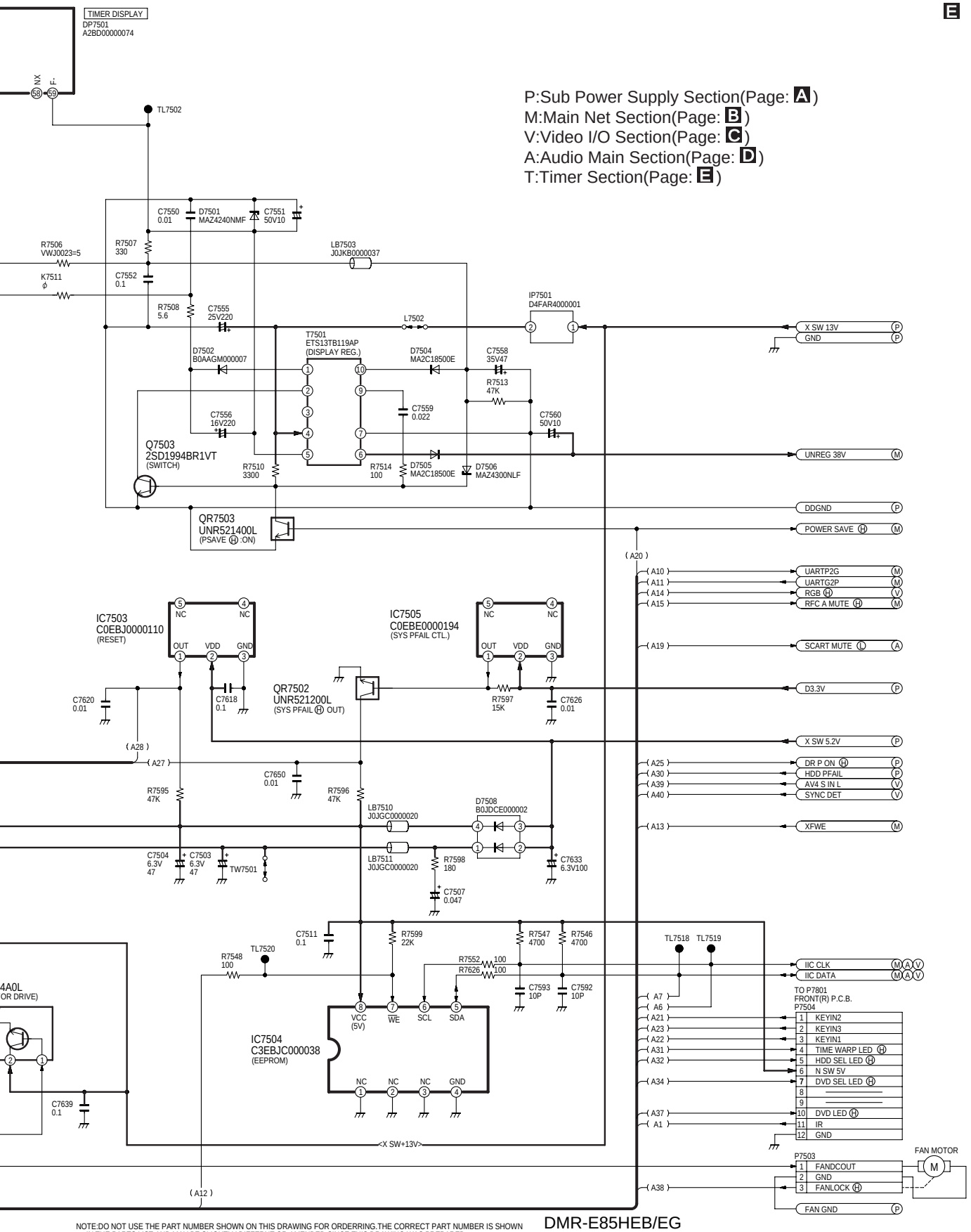





DMR-E85HEB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)


TL7501
IC7502
C0HBB0000033
(DISPLAY DRIVE)
IC7508
C0EBE0000218
(RESET)
IC7506
C0ABBA000073
(FAN MOTOR DRIVE)
Q7519
2SD601A0L
(HDD LED DRIVE)
Q7512
2SD0874A0L
(FAN MOTOR DRIVE)
D7512
B3AEA0000049
HDD
R7506
VWJ0023=5
K7511
LB7501
0
LB7502
0
R7505
27K
R7617
75
R7672 47K
R7671
6800
R7600
10K
R7601
10K
R7602
820
R7603
18K
C7525
100P
C7526
0.1
C7527
6.3V47
C7528
0.1
C7529
6.3V47
C7588
0.01
C7546
0.1
C7636
1
C7637
0.01
C7639
0.1
C7652
0.1
C7620
0.01
<N SW+5V>
DMR-E85HEB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

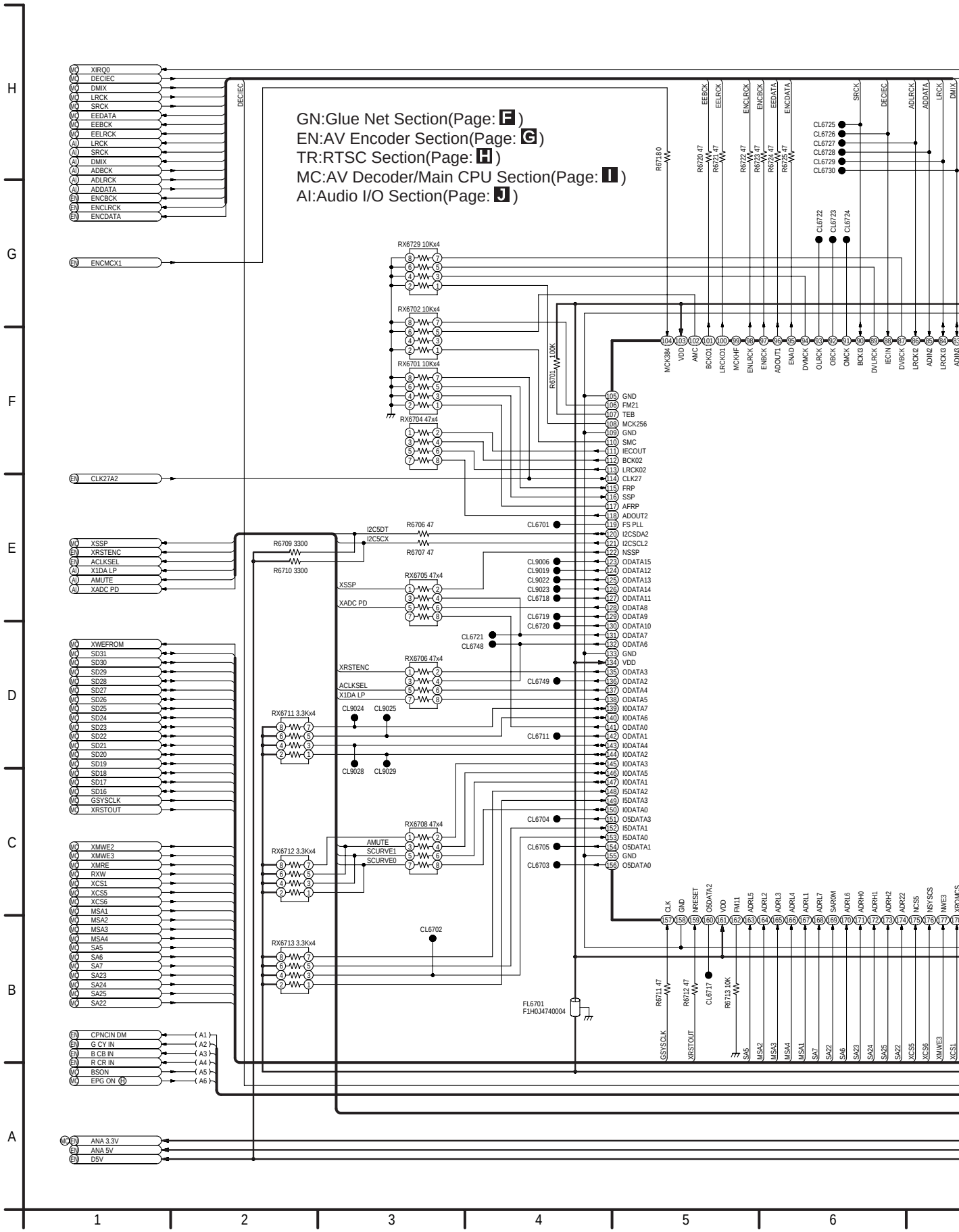
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

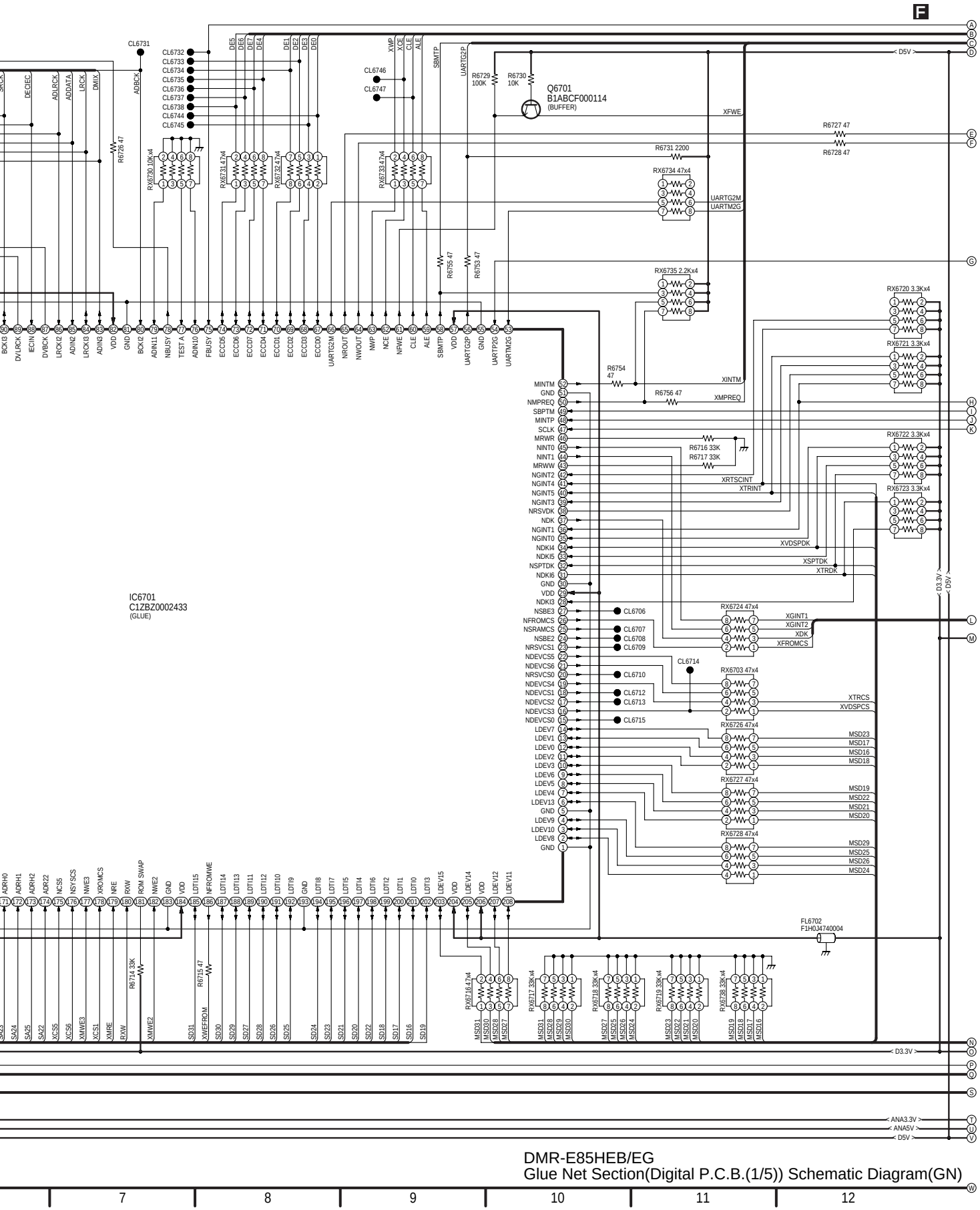



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

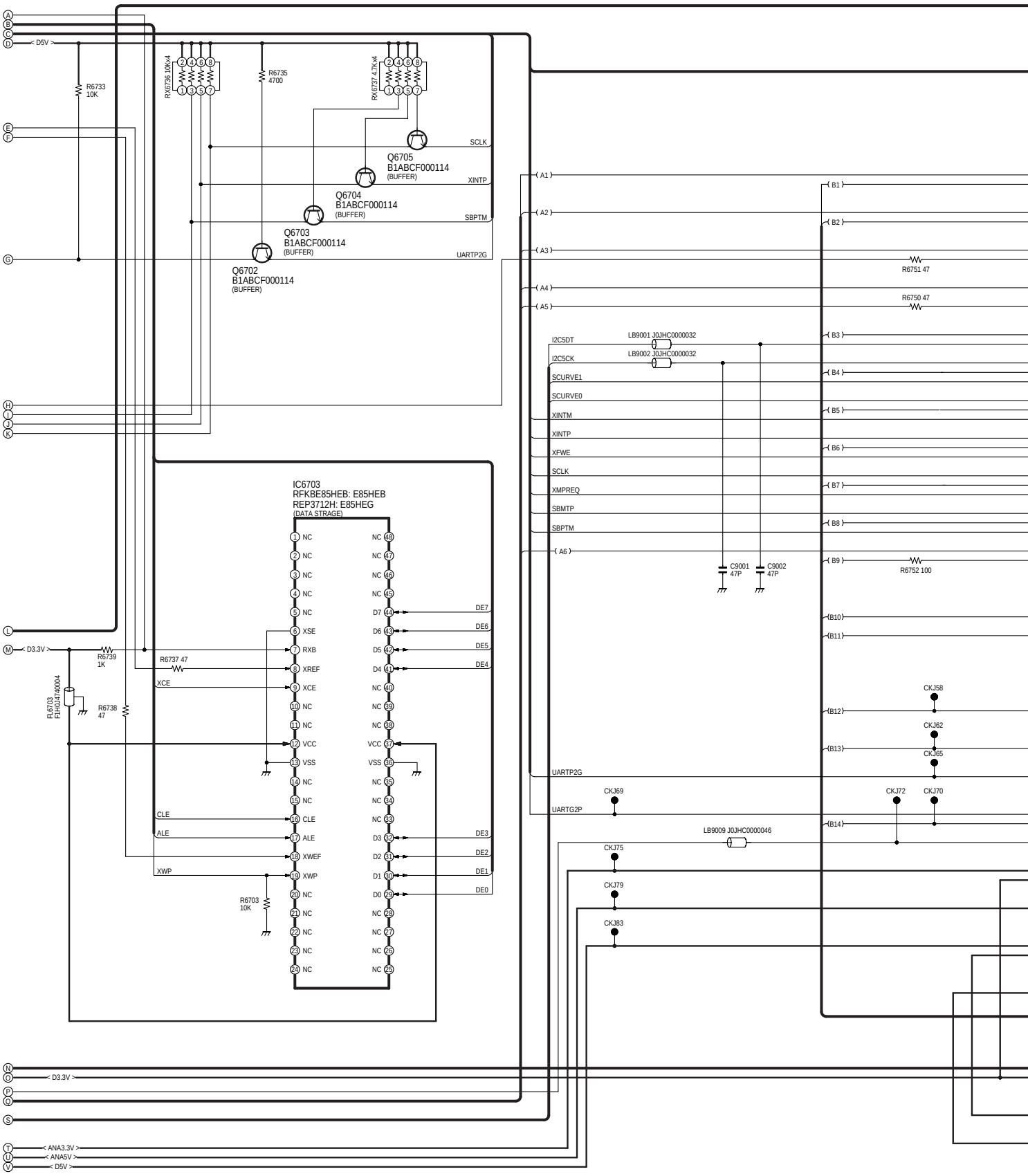
DMR-E85HEB/EG
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

# 17.8. Glue Net Section (Digital P.C.B. (1/5)) Schematic Diagram (GN)

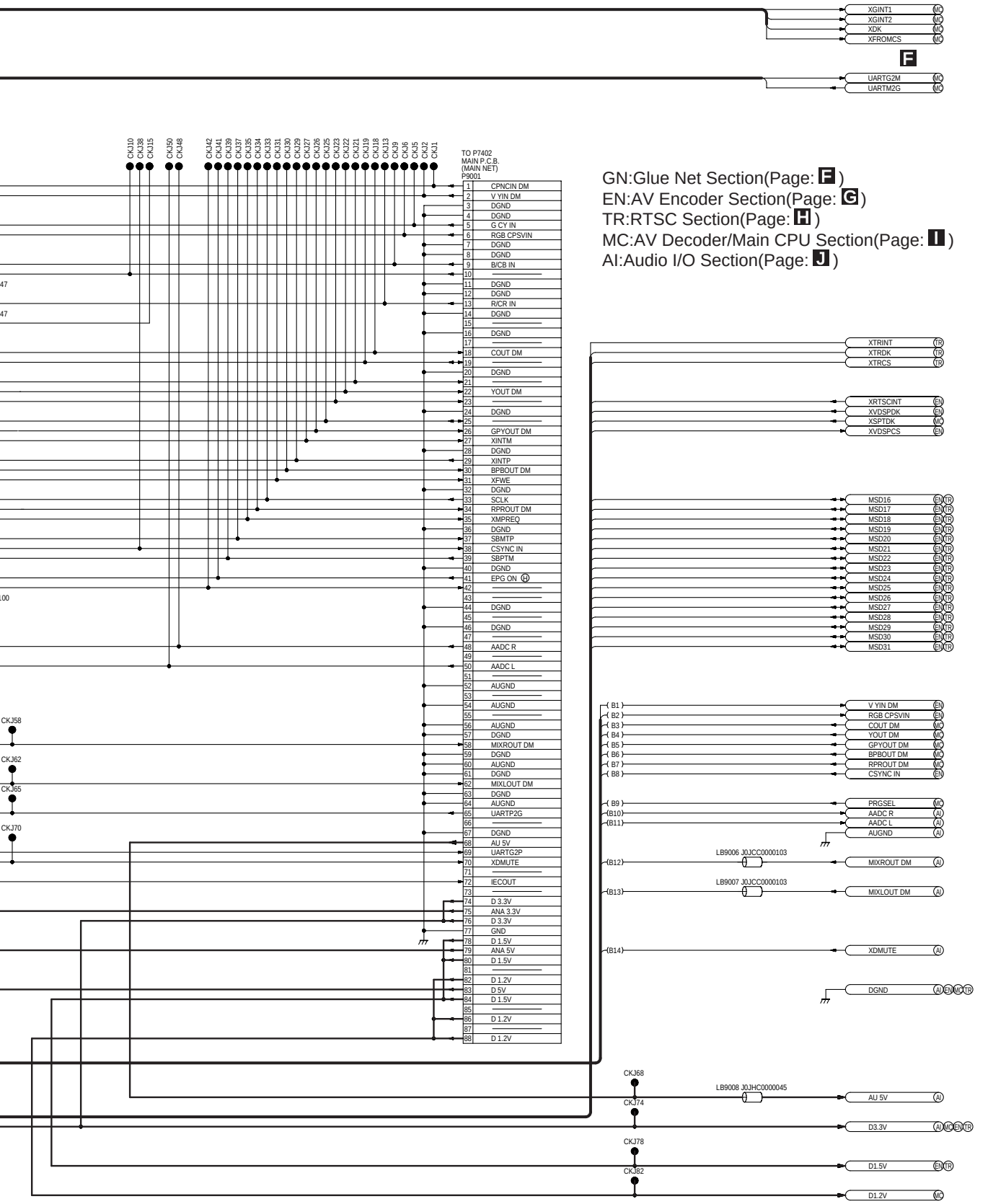





DMR-E85HEB/EG
Glue Net Section(Digital P.C.B.(1/5)) Schematic Diagram(GN)




DMR-E85HEB/EG
Glue Net Section(Digital P.C.B.(1/5)) Schematic Diagram(GN)

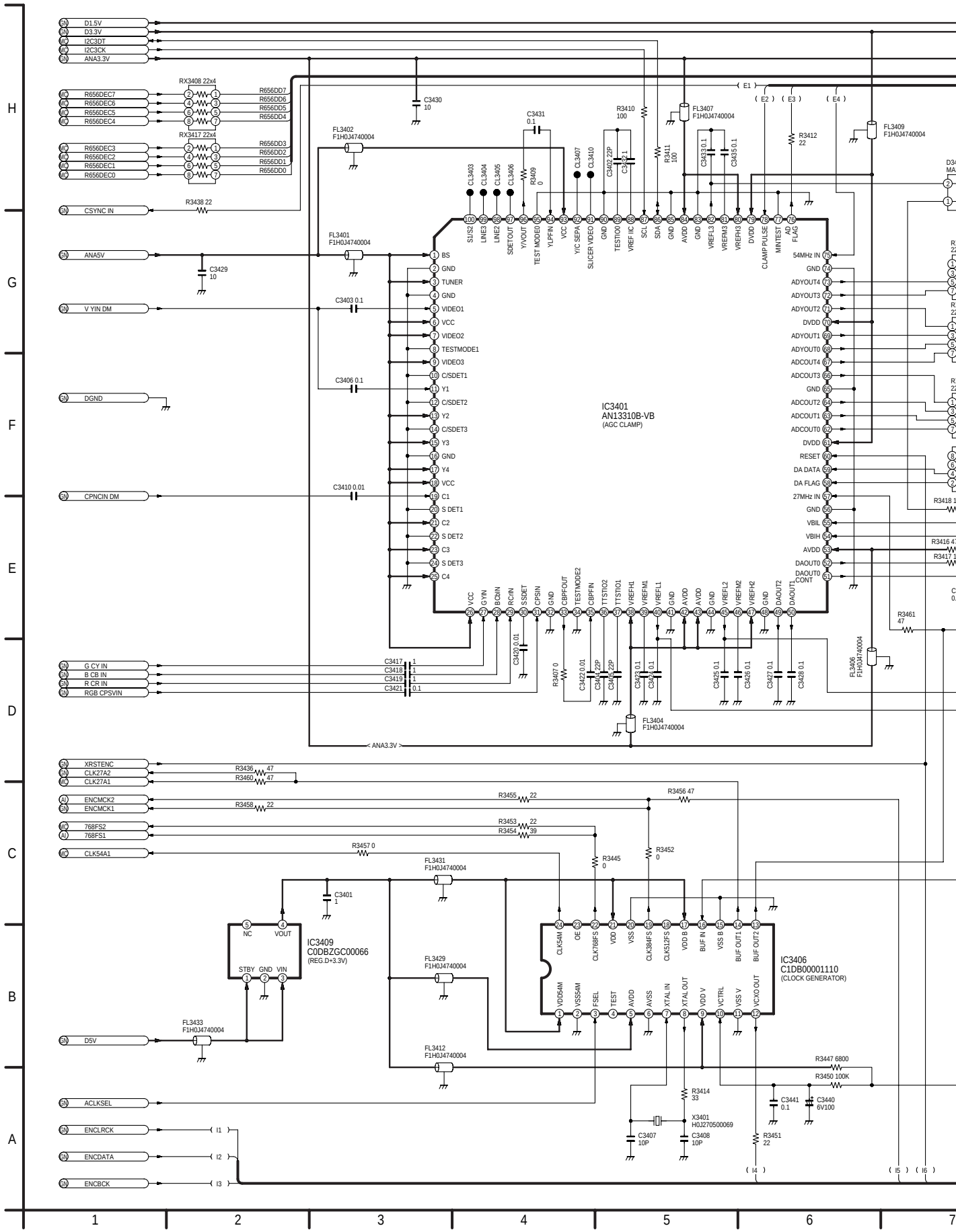



DMR-E85HEB/EG
Glue Net Section(Digital P.C.B.(1/5))
Schematic Diagram(GN)

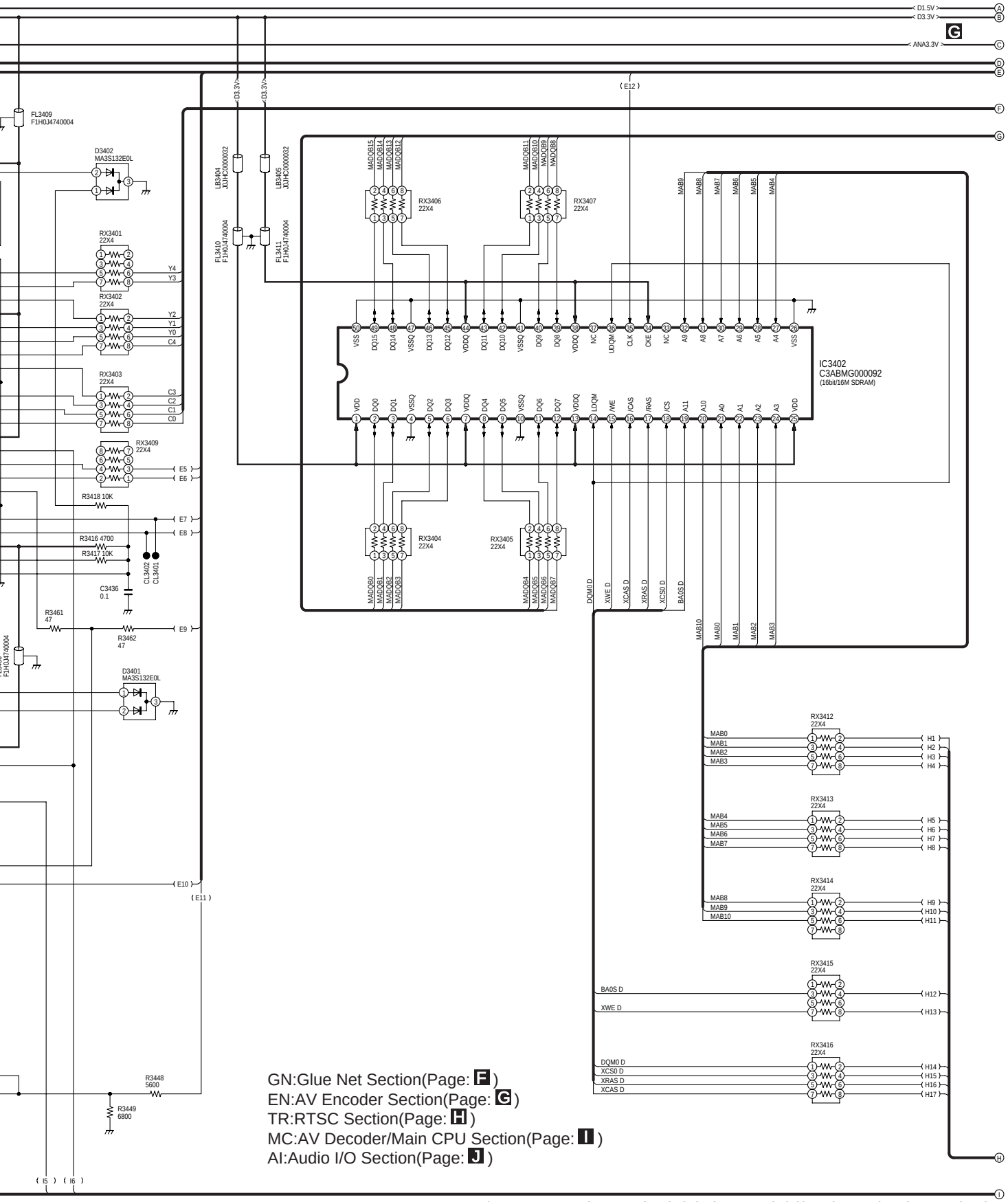
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

19 20 21 22 23 24 25

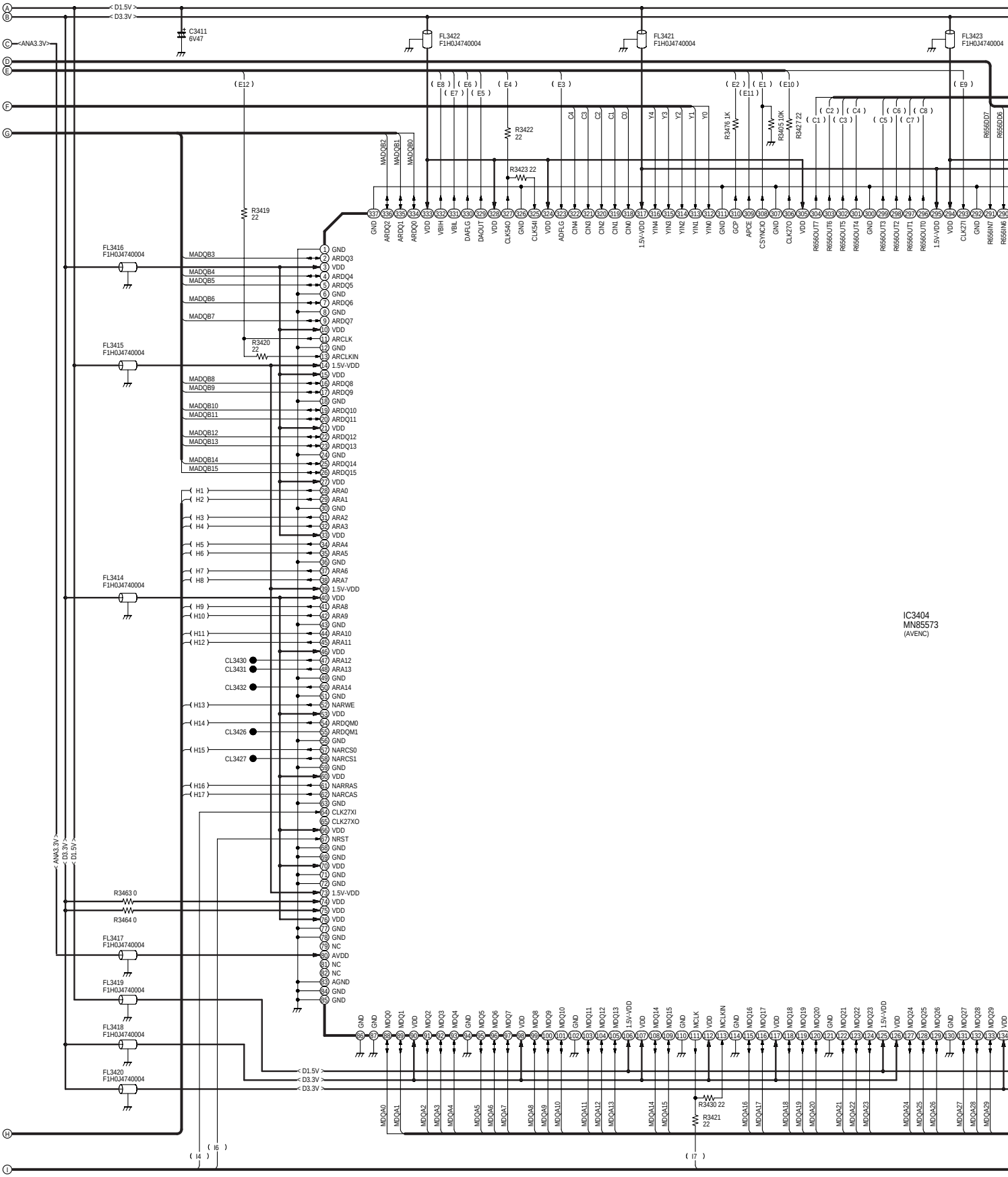
# 17.9. AV Encoder/Real Time Stream Control (RTSC) Section (Digital P.C.B. (2/5))



# .B. (2/5)) Schematic Diagram (EN)

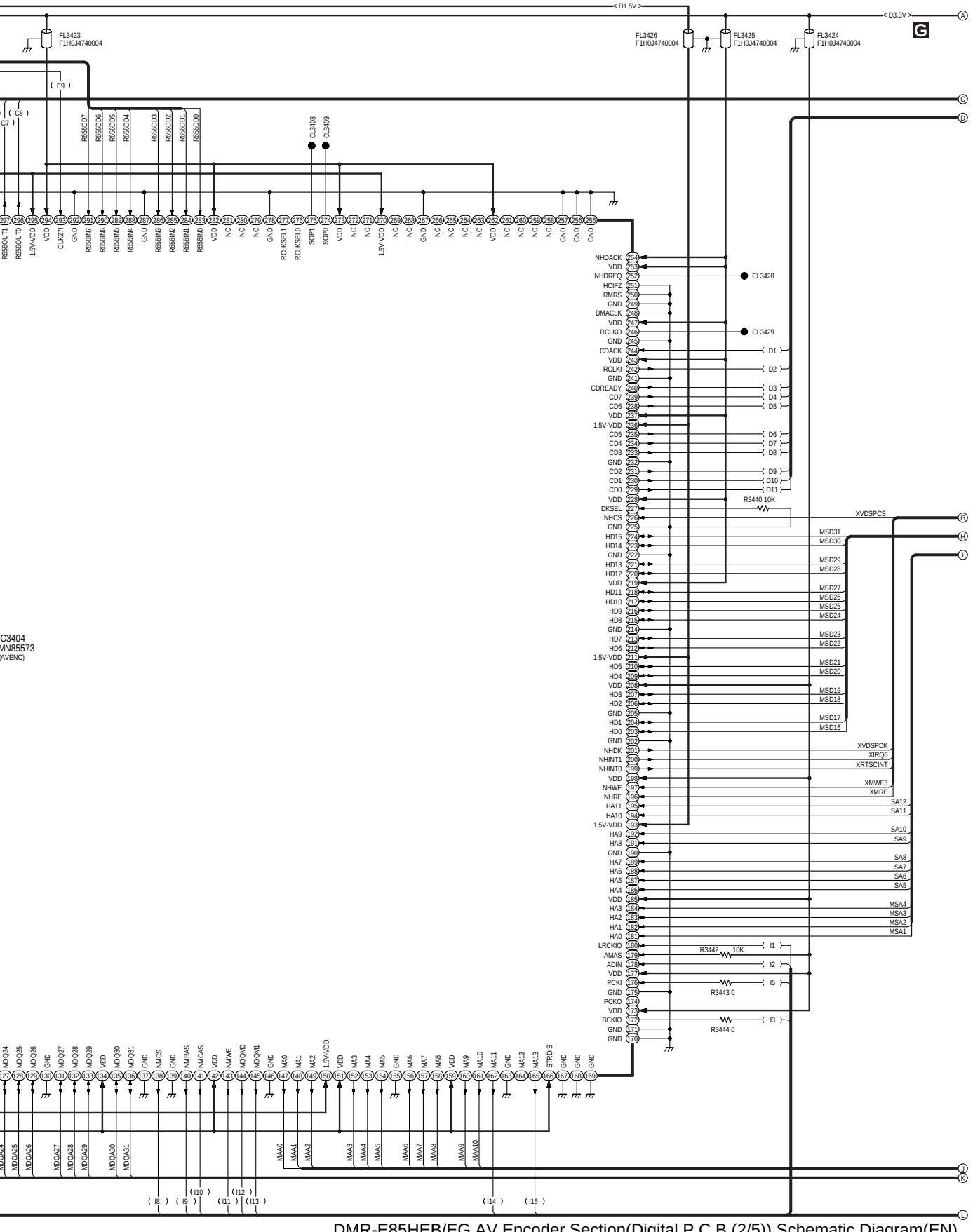


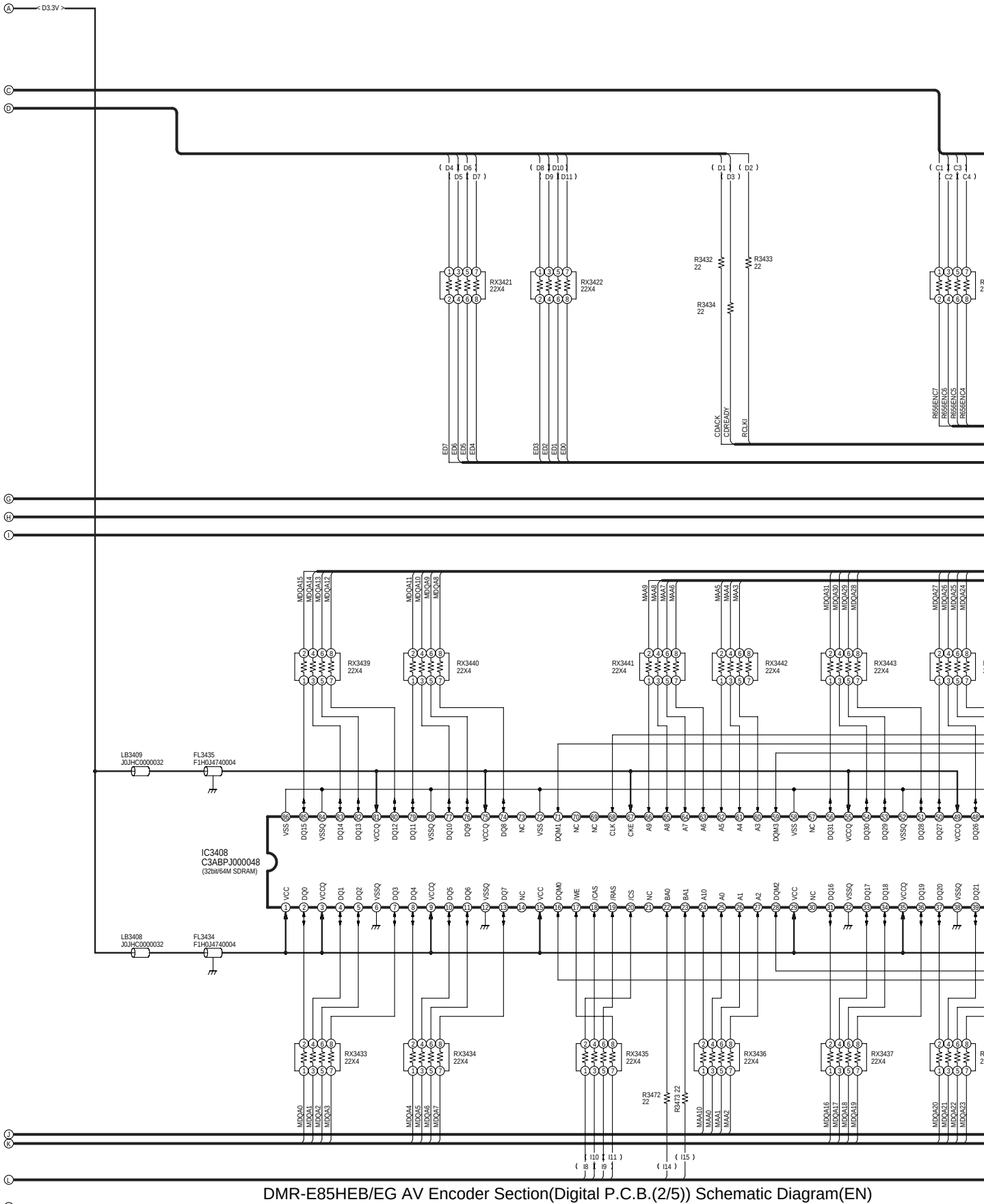

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )




DMR-E85HEB/EG AV Encoder Section(Digital P.C.B.(2/5)) Schematic Diagram(EN)

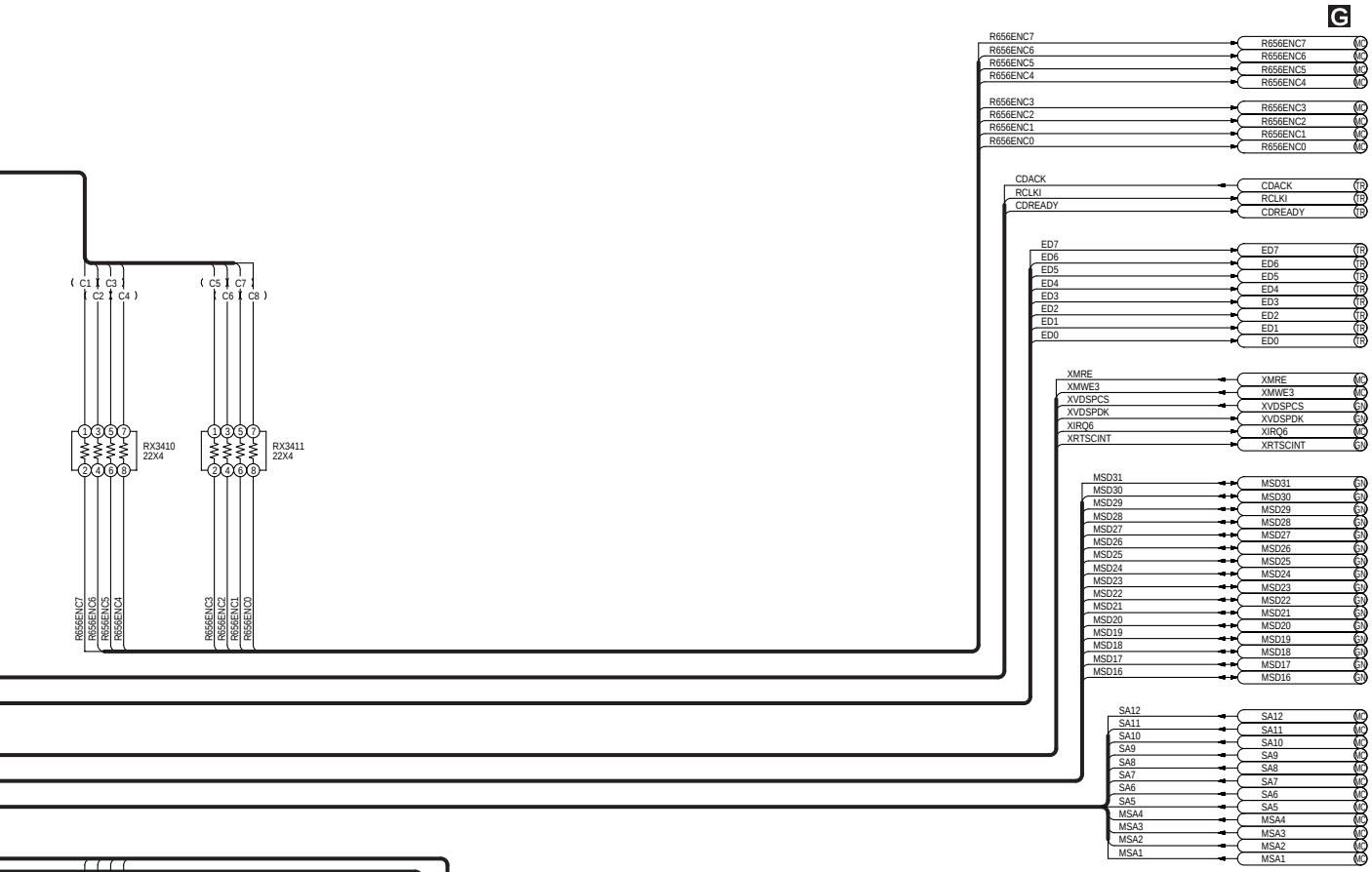
13 | 14 | 15 | 16 | 17 | 18 | 19

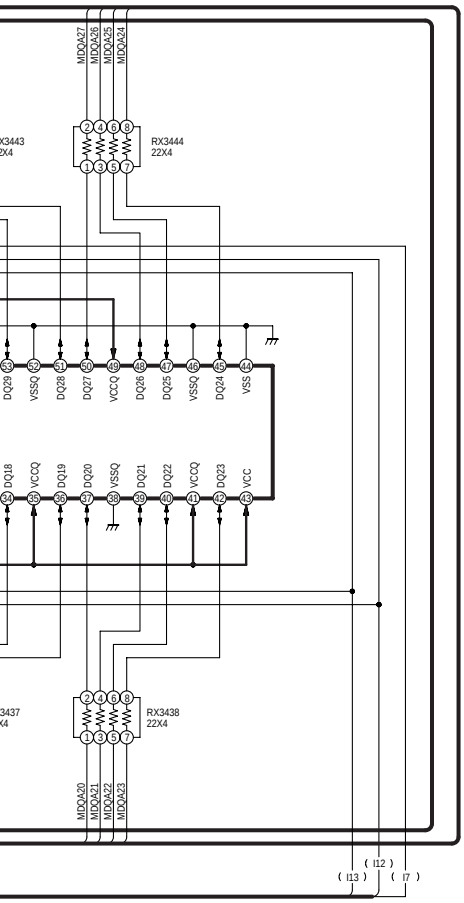

D1.5V
D3.3V
FL3423 F1H0J4740004
FL3426 F1H0J4740004
FL3425 F1H0J4740004
FL3424 F1H0J4740004
E9
C8
C7
CL3408
CL3409
CL3428
CL3429
R3440 10K
R3442 10K
R3443 0
R3444 0
XVDSPCS
XVDSPDK
XIRQ6
XRTSCINT
XMWE3
XMRE
C3404
MN85573
(AVENC)
DMR-E85HEB/EG AV Encoder Section(Digital P.C.B.(2/5)) Schematic Diagram(EN)




DMR-E85HEB/EG AV Encoder Section(Digital P.C.B.(2/5)) Schematic Diagram(EN)

26 | 27 | 28 | 29 | 30 | 31 | 32



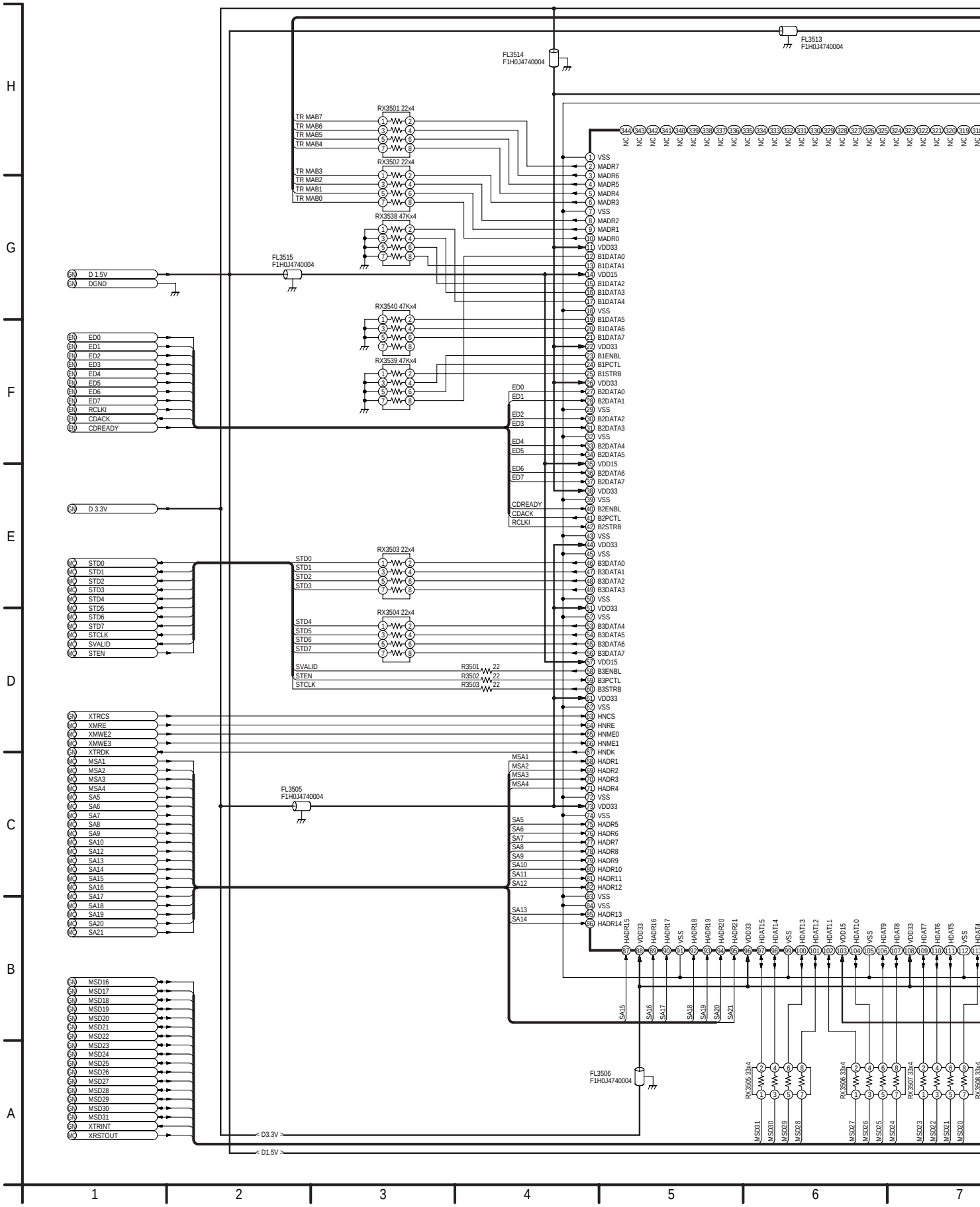

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

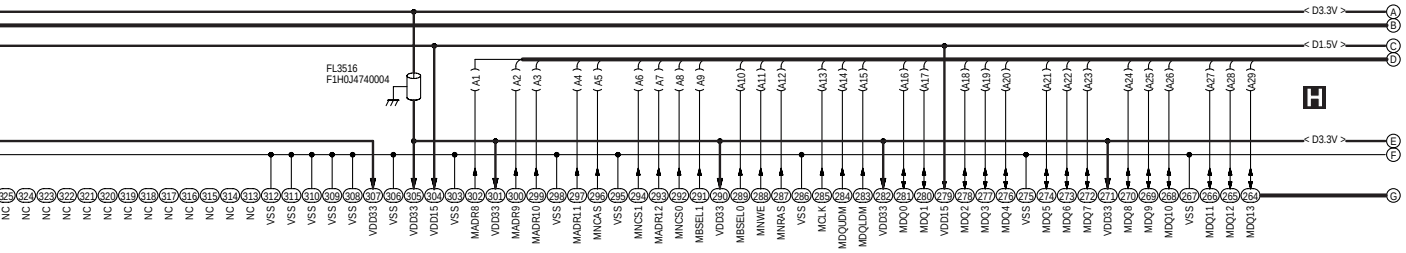
DMR-E85HEB/EG
AV Encoder Section
(Digital P.C.B.(2/5))
Schematic Diagram(EN)

32 33 34 35 36 37

# 17.10. Real Time Stream Control (RTSC) Section (Digital P.C.B. (3/5)) Schematic Diag

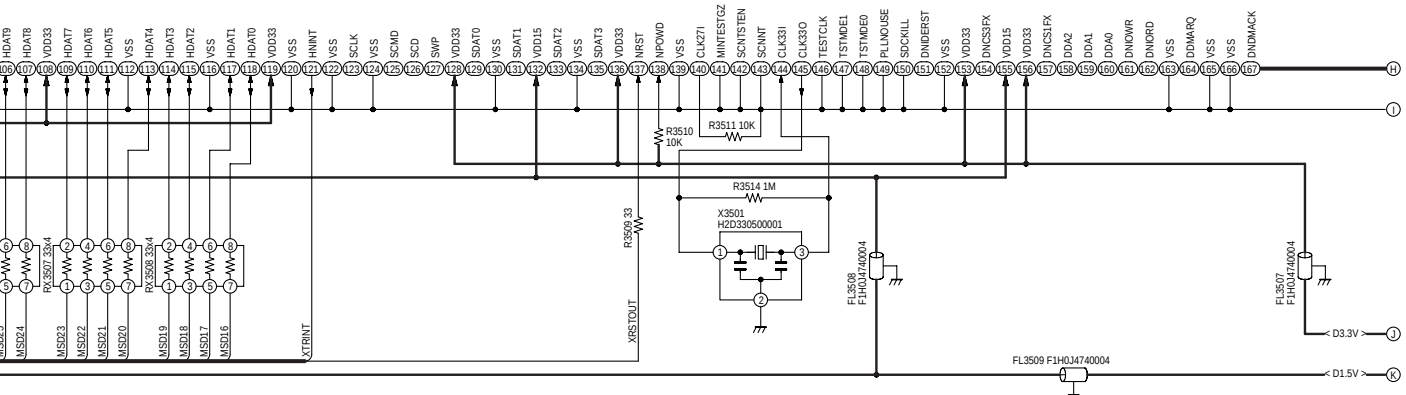


# atic Diagram (TR)



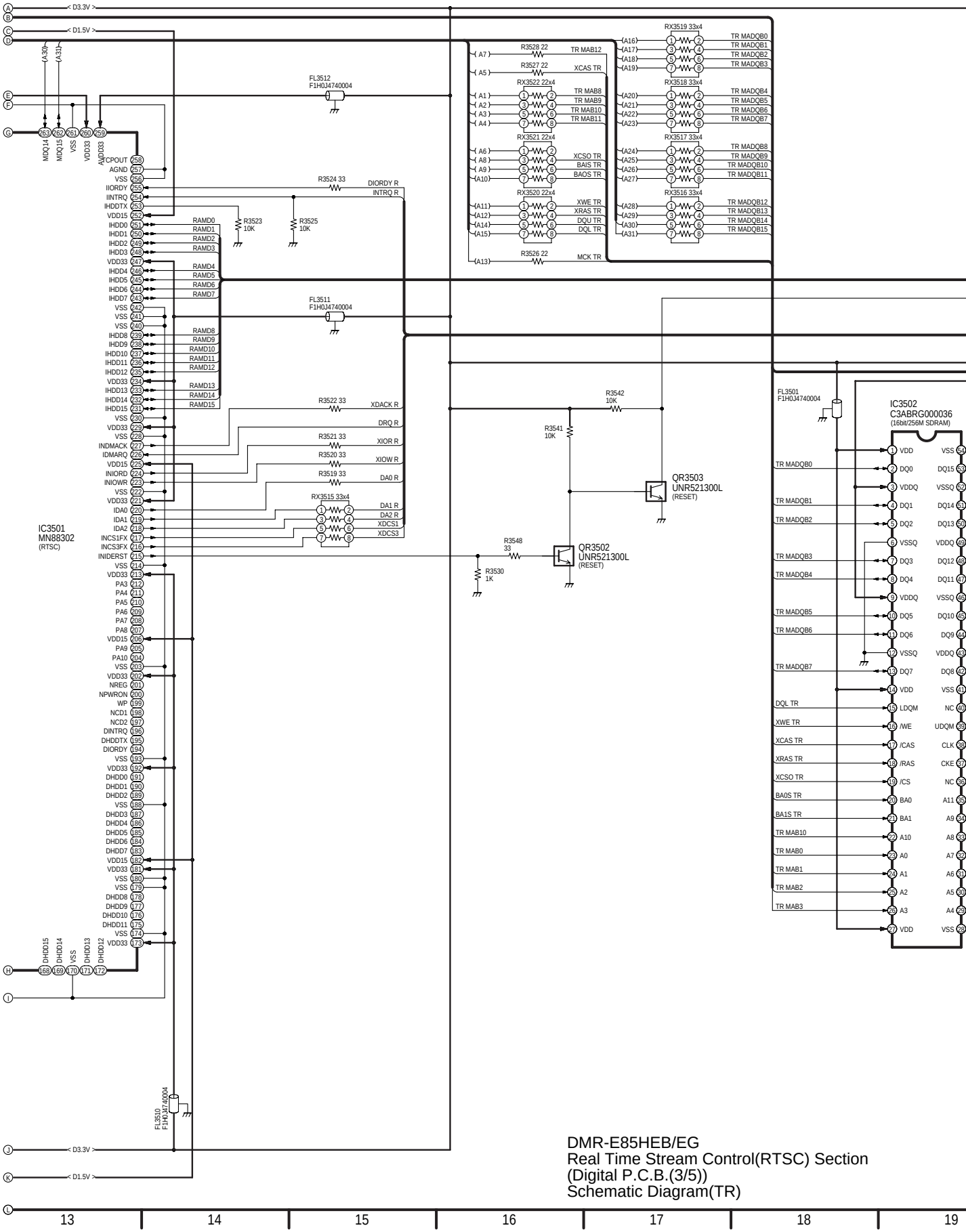

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G)
TR:RTSC Section(Page: H)
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

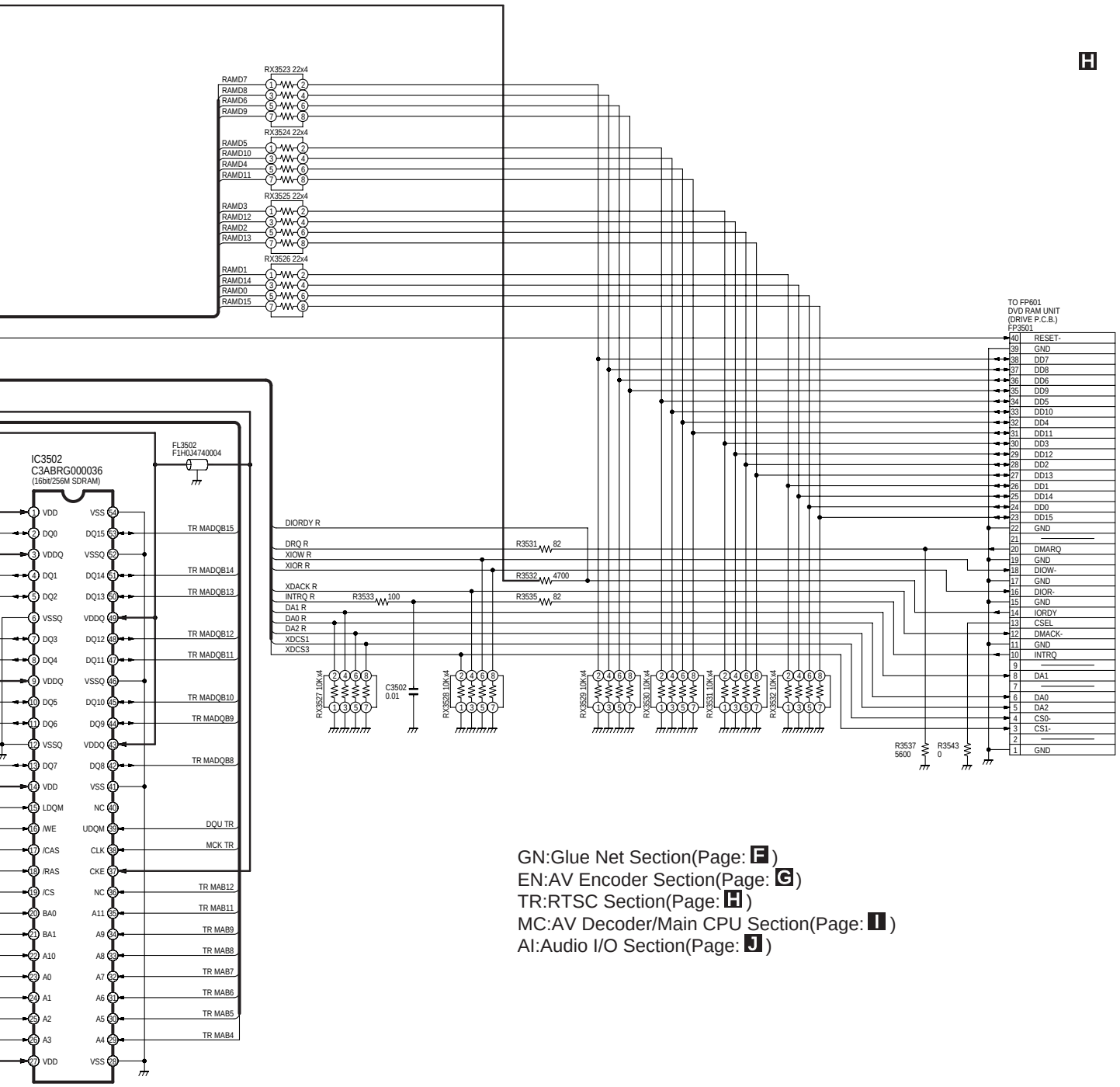
IC3501
MN88302
(RTSC)




DMR-E85HEB/EG Real Time Stream Control(RTSC) Section(Digital P.C.B.(3/5)) Schematic Diagram(TR)

7 8 9 10 11 12


IC3501
MN88302
(RTSC)
IC3502
C3ABRG000036
(16bit/256M SDRAM)
QR3503
UNR521300L
(RESET)
QR3502
UNR521300L
(RESET)
FL3512
F1H0J4740004
FL3511
F1H0J4740004
FL3501
F1H0J4740004
FL3510
F1H0J4740004
R3524 33
DIORDY R
INTRQ R
R3523
10K
R3525
10K
R3522 33
XDACK R
DRQ R
R3521 33
XIOR R
R3520 33
XIOW R
R3519 33
DA0 R
RX3515 33x4
DA1 R
DA2 R
XDCS1
XDCS3
R3542
10K
R3541
10K
R3548
33
R3530
1K
RX3519 33x4
RX3518 33x4
RX3517 33x4
RX3516 33x4
RX3522 22x4
RX3521 22x4
RX3520 22x4
R3528 22
R3527 22
R3526 22
TR MADQB0
TR MADQB1
TR MADQB2
TR MADQB3
TR MADQB4
TR MADQB5
TR MADQB6
TR MADQB7
TR MADQB8
TR MADQB9
TR MADQB10
TR MADQB11
TR MADQB12
TR MADQB13
TR MADQB14
TR MADQB15
TR MAB12
XCAS TR
TR MAB8
TR MAB9
TR MAB10
TR MAB11
XCSO TR
BAIS TR
BAOS TR
XWE TR
XRAS TR
DQU TR
DQL TR
MCK TR
RAMD0
RAMD1
RAMD2
RAMD3
RAMD4
RAMD5
RAMD6
RAMD7
RAMD8
RAMD9
RAMD10
RAMD11
RAMD12
RAMD13
RAMD14
RAMD15
< D3.3V >
< D1.5V >
DMR-E85HEB/EG
Real Time Stream Control(RTSC) Section
(Digital P.C.B.(3/5))
Schematic Diagram(TR)



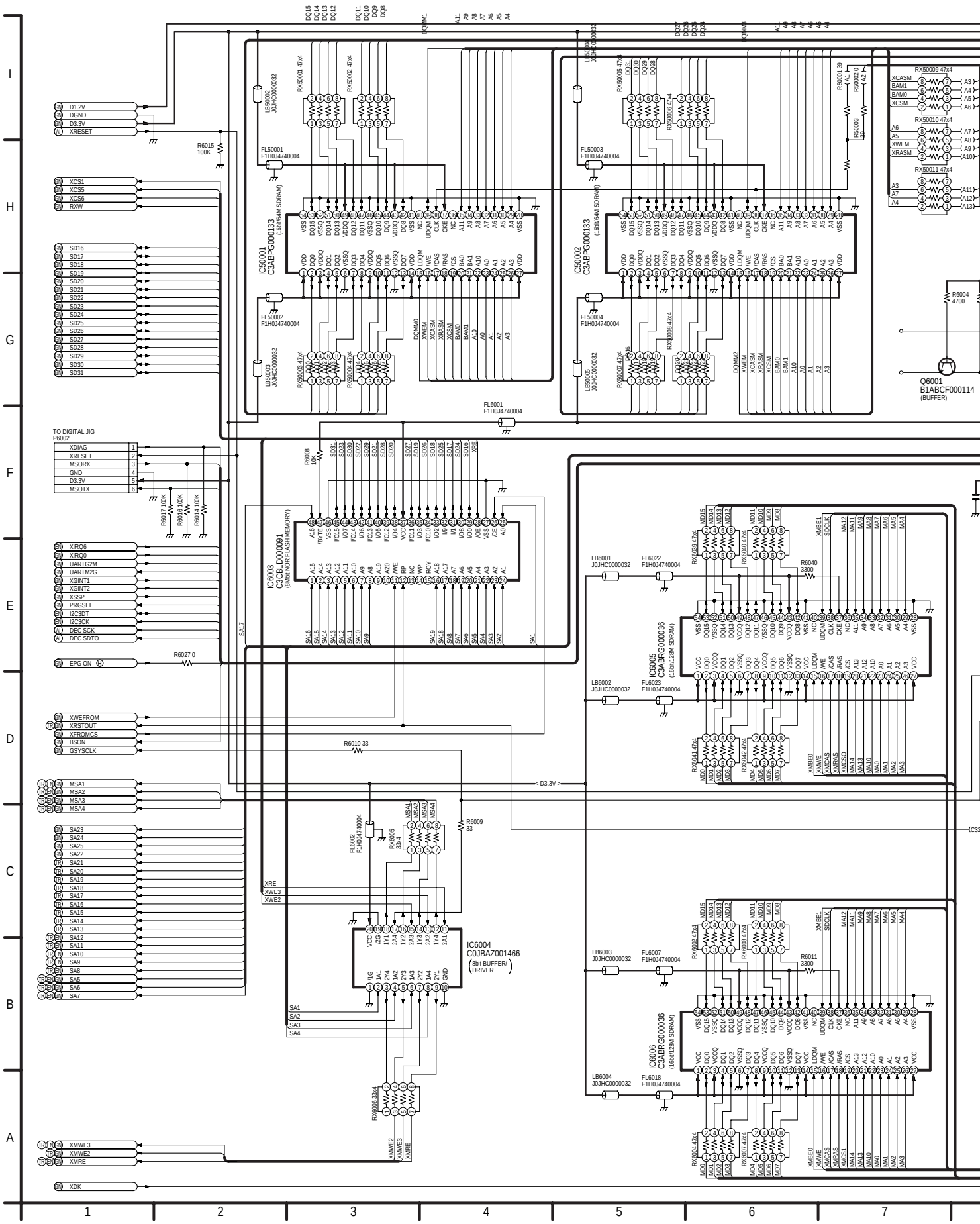

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

DMR-E85HEB/EG
Real Time Stream Control(RTSC) Section
(Digital P.C.B.(3/5))
Schematic Diagram(TR)

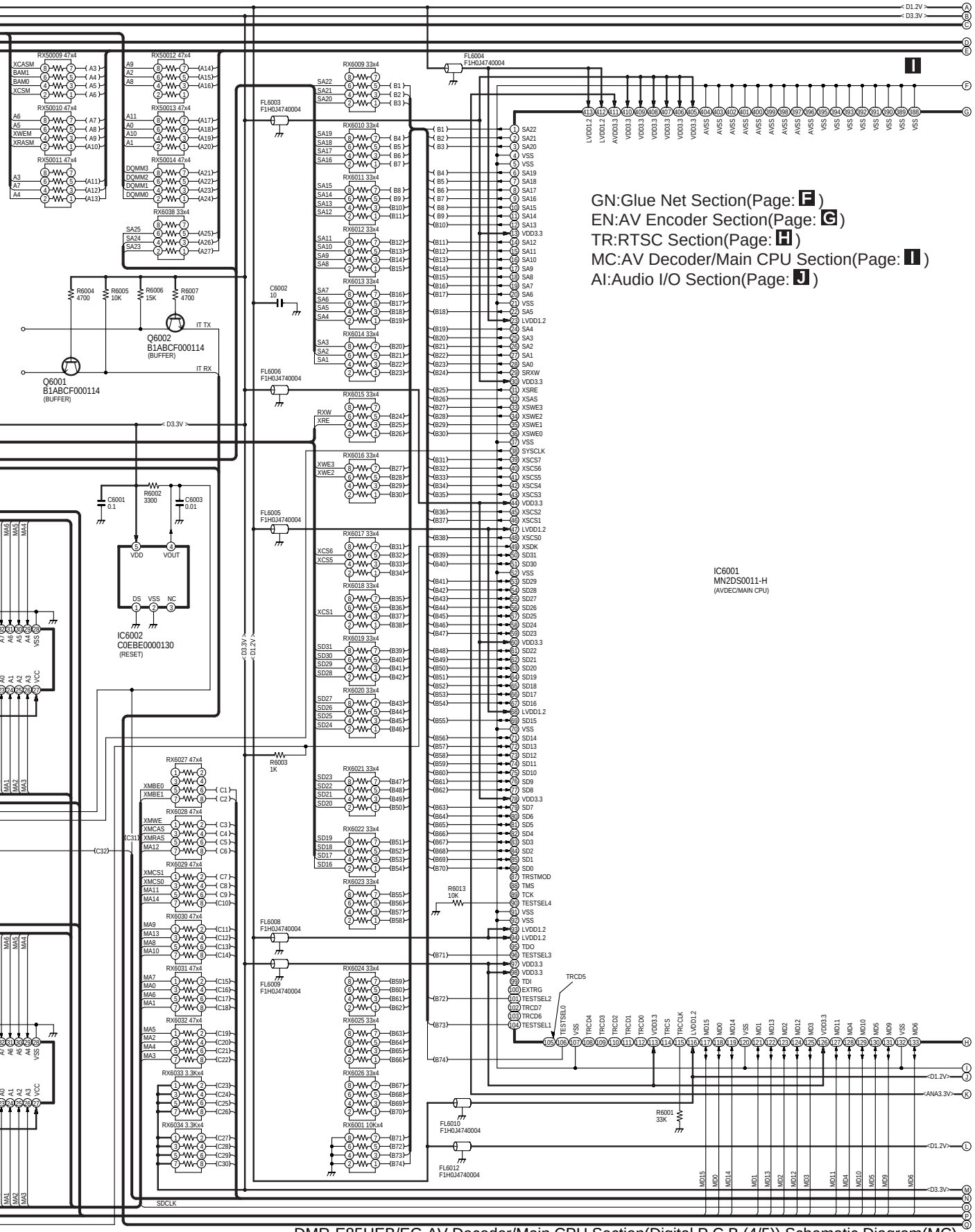
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

19 20 21 22 23 24 25

# 17.11. AV Decoder/Main CPU Section (Digital P.C.B. (4/5)) Schematic Diagram (MC)

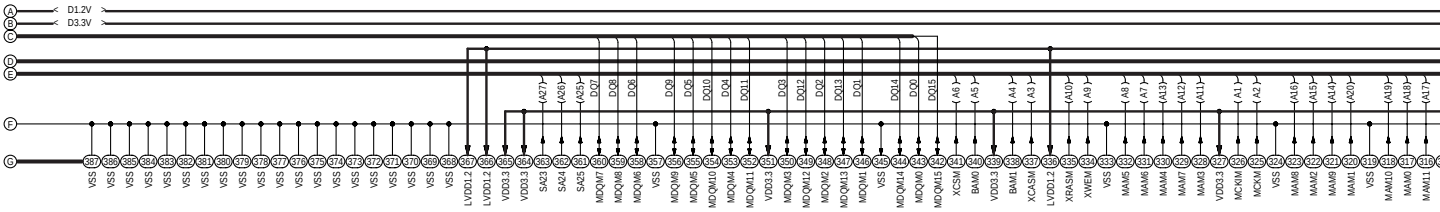


# n (MC)



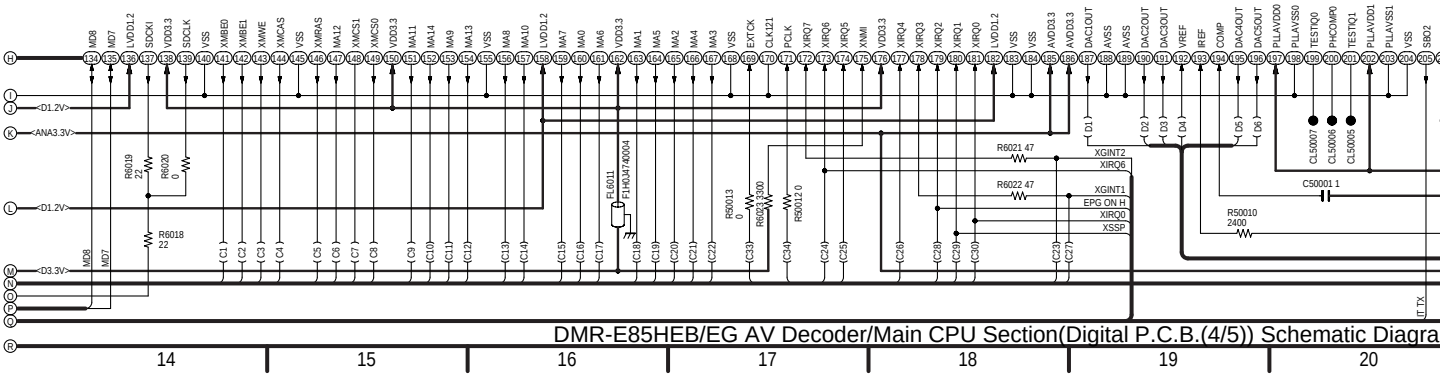

DMR-E85HEB/EG AV Decoder/Main CPU Section(Digital P.C.B.(4/5)) Schematic Diagram(MC)

7 8 9 10 11 12 13

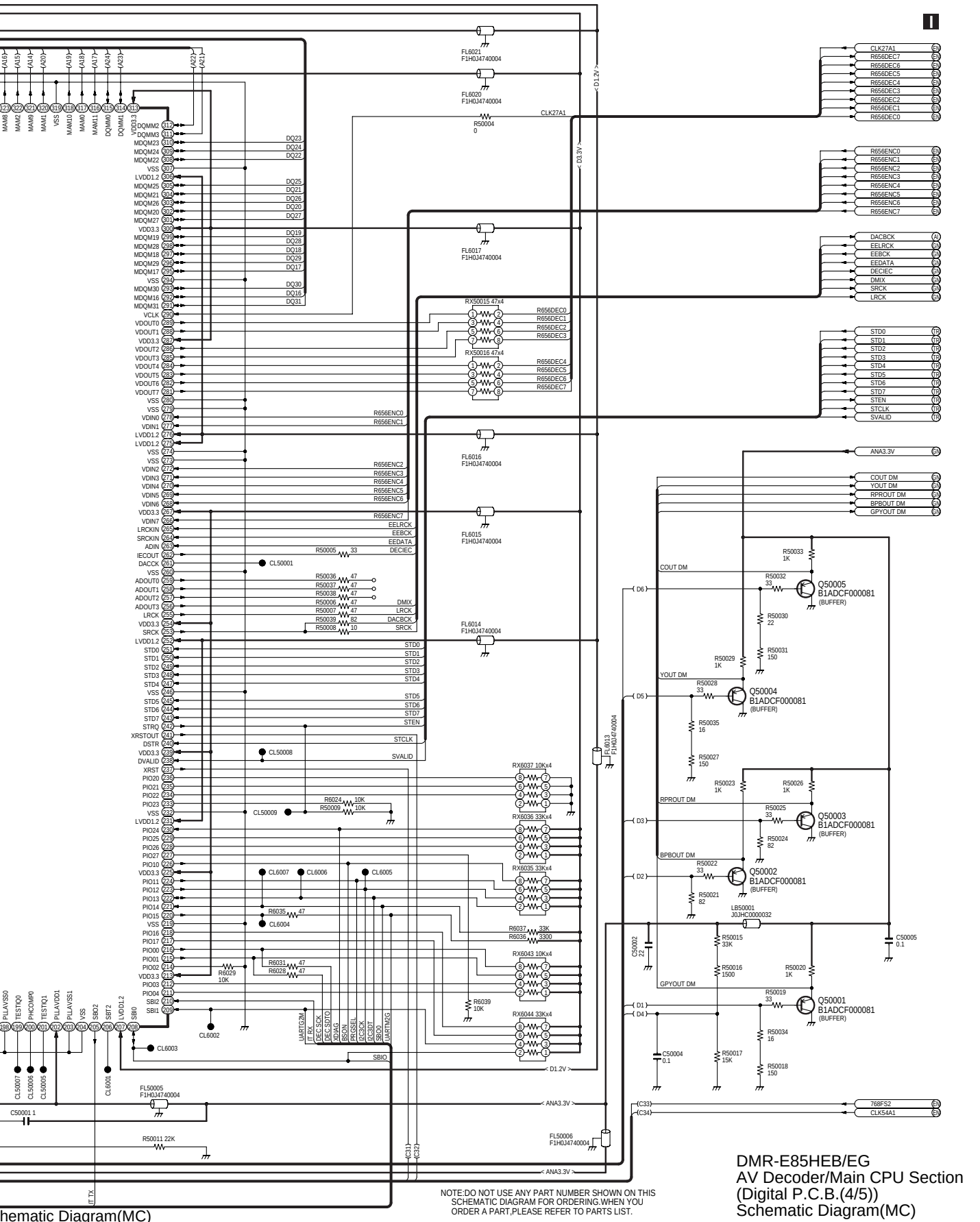


GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G)
TR:RTSC Section(Page: H)
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

IC6001
MN2DS0011-H
(AVDEC/MAIN CPU)



DMR-E85HEB/EG AV Decoder/Main CPU Section(Digital P.C.B.(4/5)) Schematic Diagra

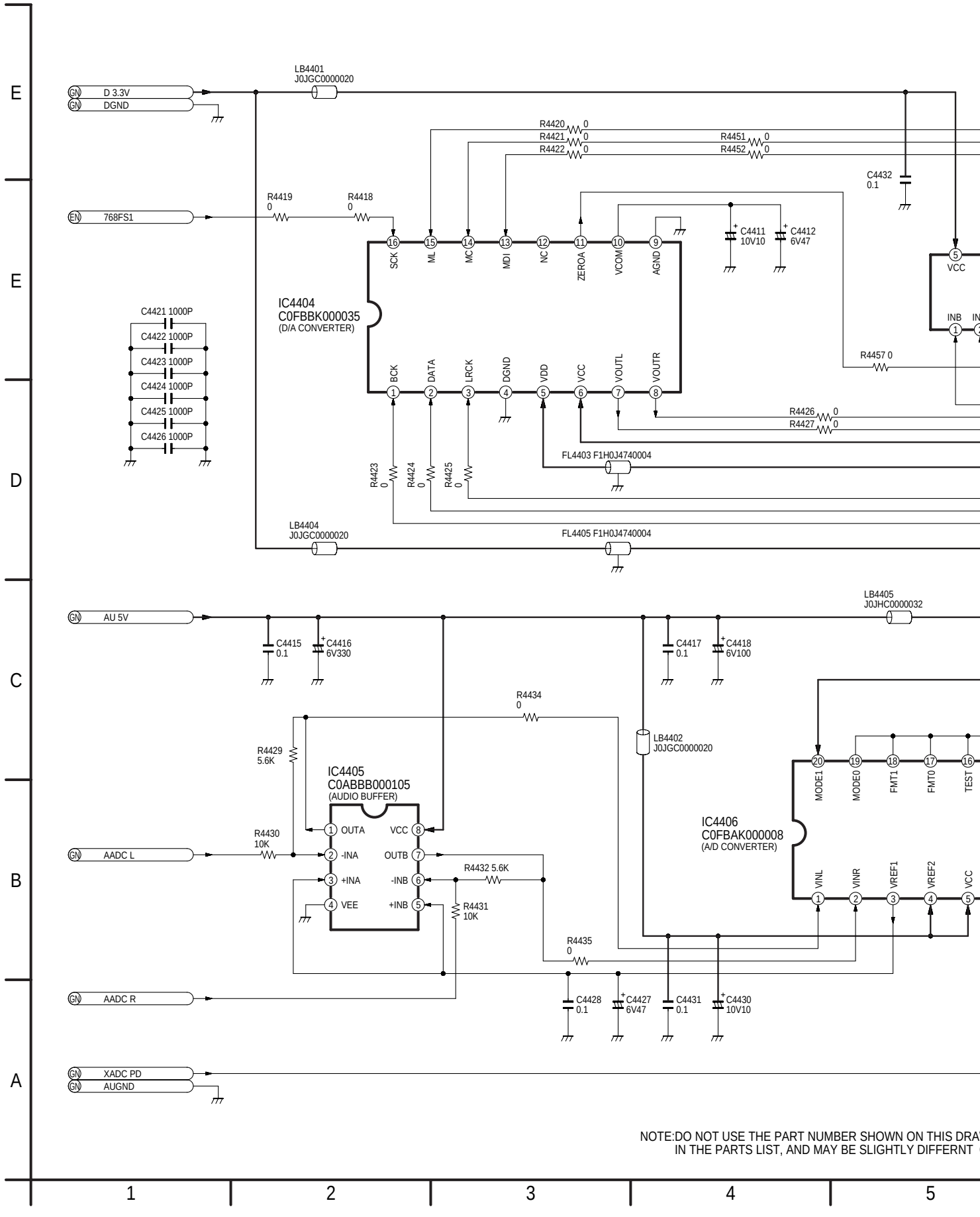



DMR-E85HEB/EG
AV Decoder/Main CPU Section
(Digital P.C.B.(4/5))
Schematic Diagram(MC)

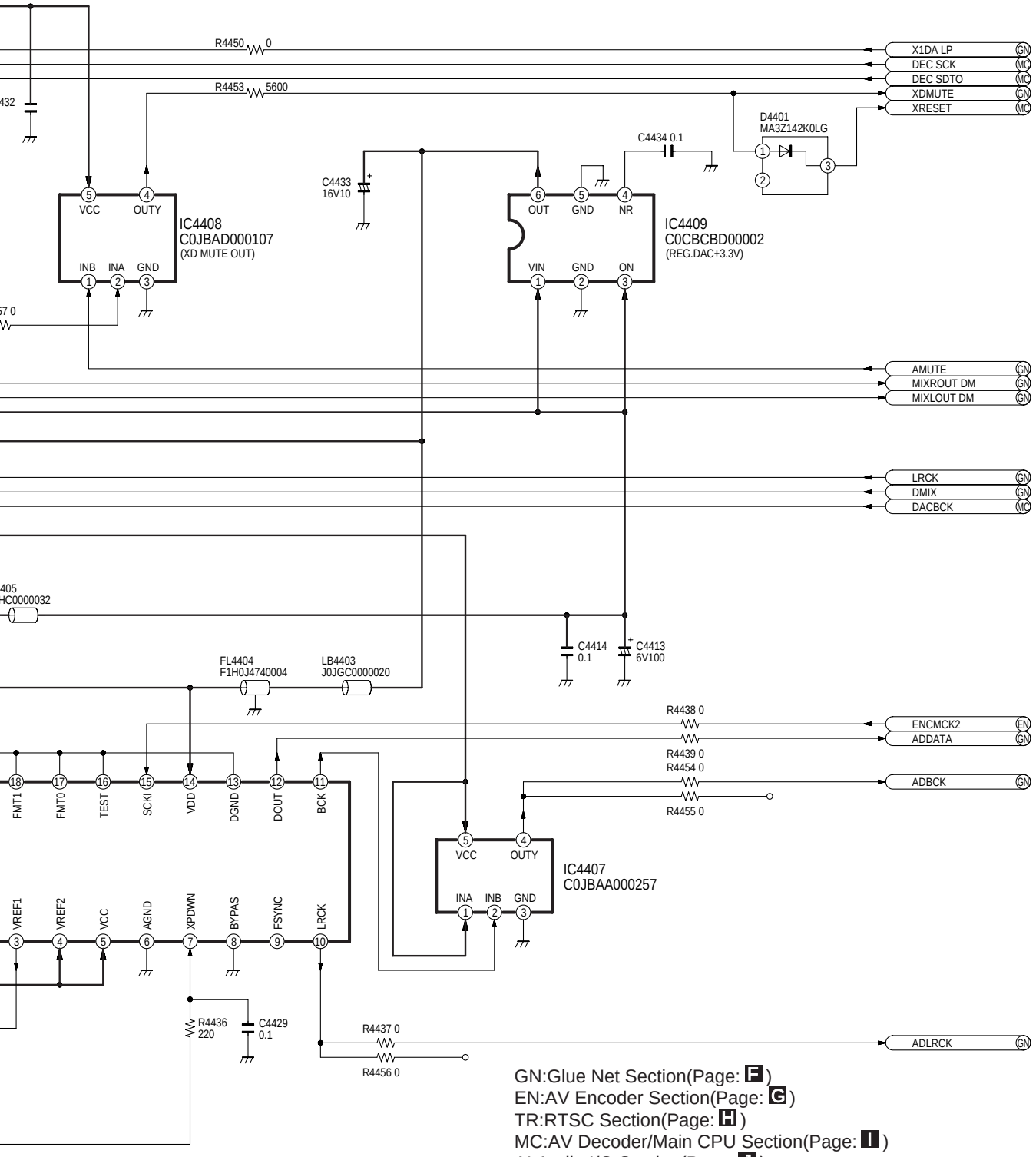
hematic Diagram(MC)

20 21 22 23 24 25 26

# 17.12. Audio I/O Section (Digital P.C.B. (5/5)) Schematic Diagram (AI)



J



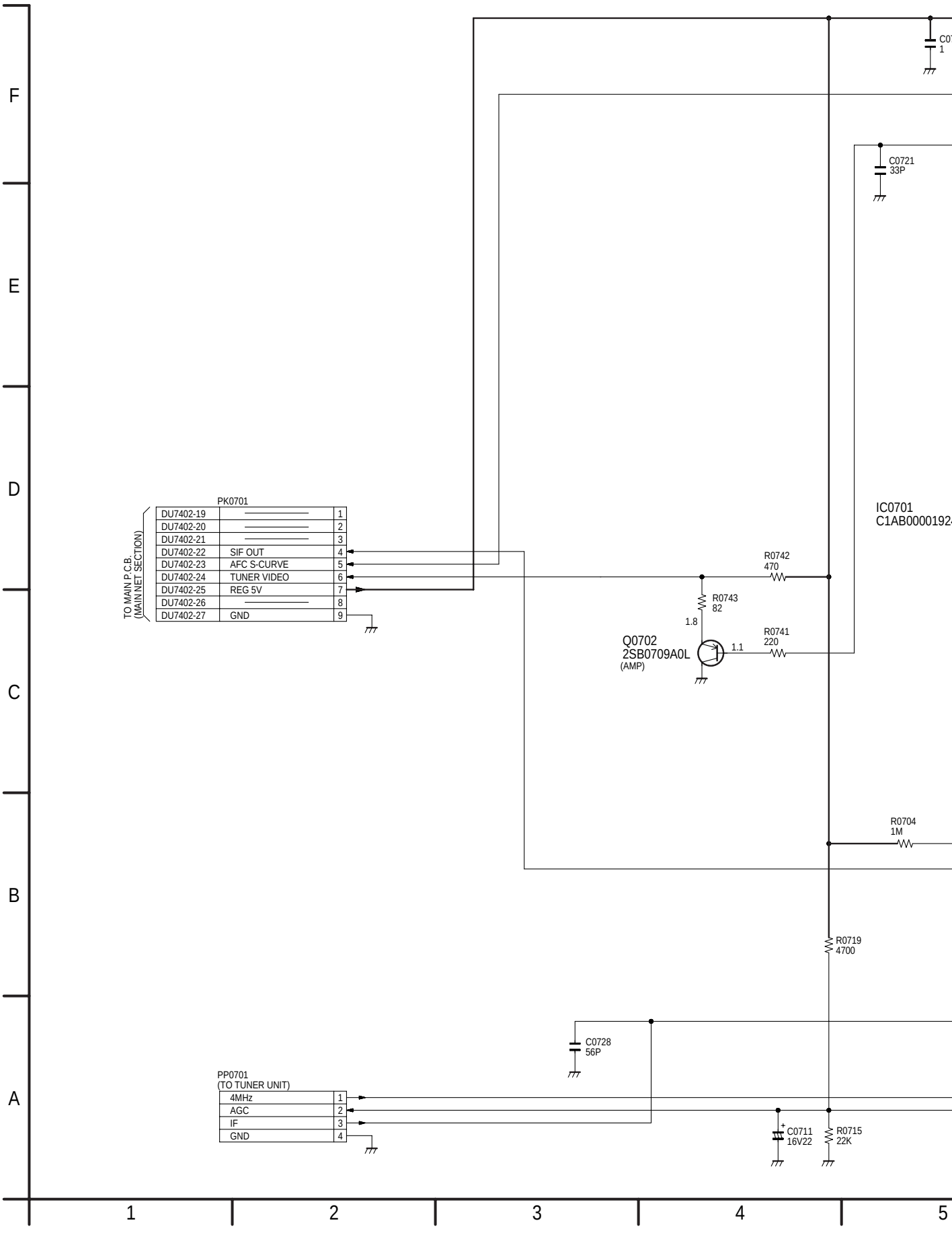

GN:Glue Net Section(Page: F )
EN:AV Encoder Section(Page: G )
TR:RTSC Section(Page: H )
MC:AV Decoder/Main CPU Section(Page: I )
AI:Audio I/O Section(Page: J )

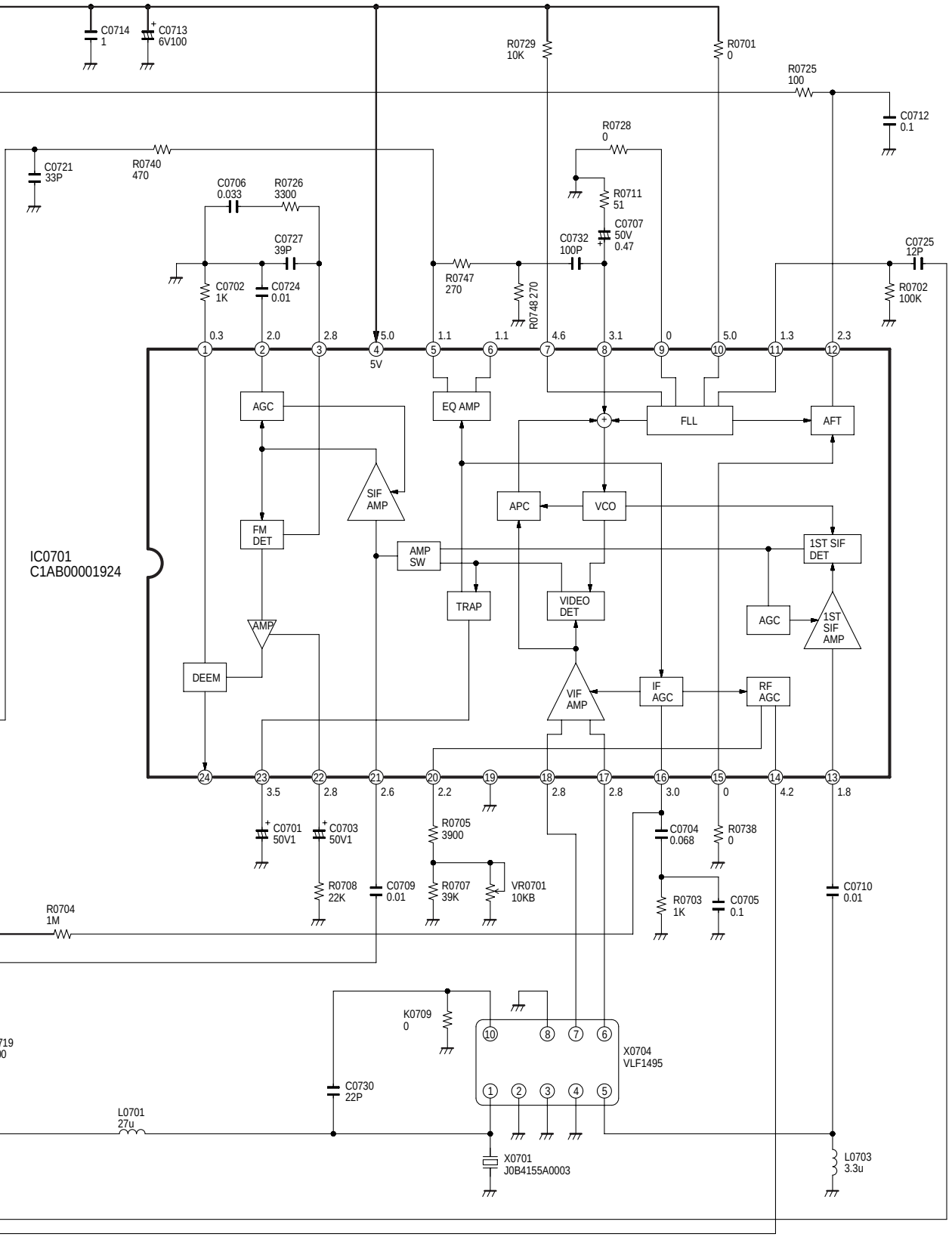
OWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
GHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E85HEB/EG
Audio I/O Section
(Digital P.C.B.(5/5))
Schematic Diagram(AI)

| 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|

# 17.13. VIF Decoder Schematic Diagram (For DMR-E85HEB)





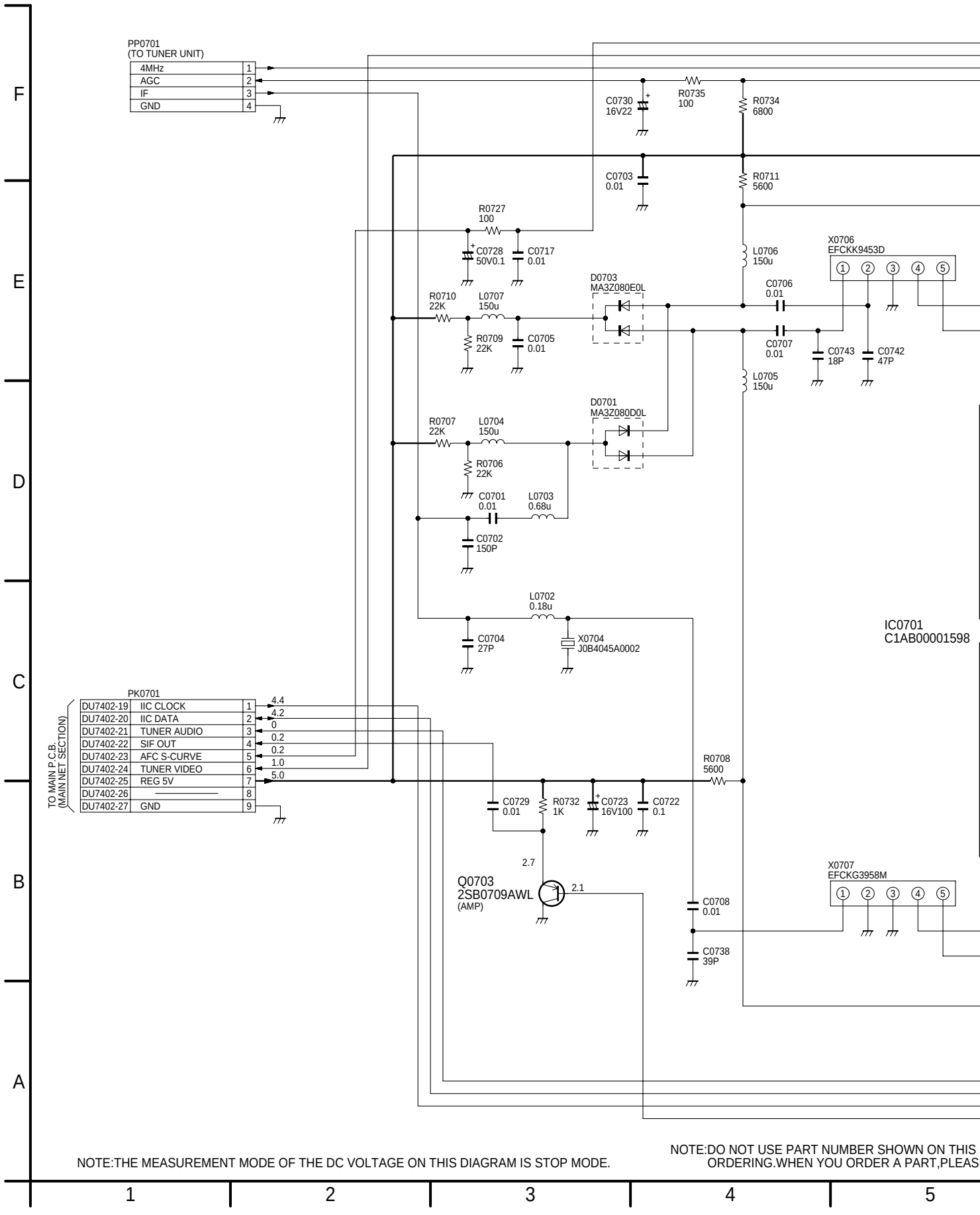

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E85HEB
VIF Decoder Schematic Diagram

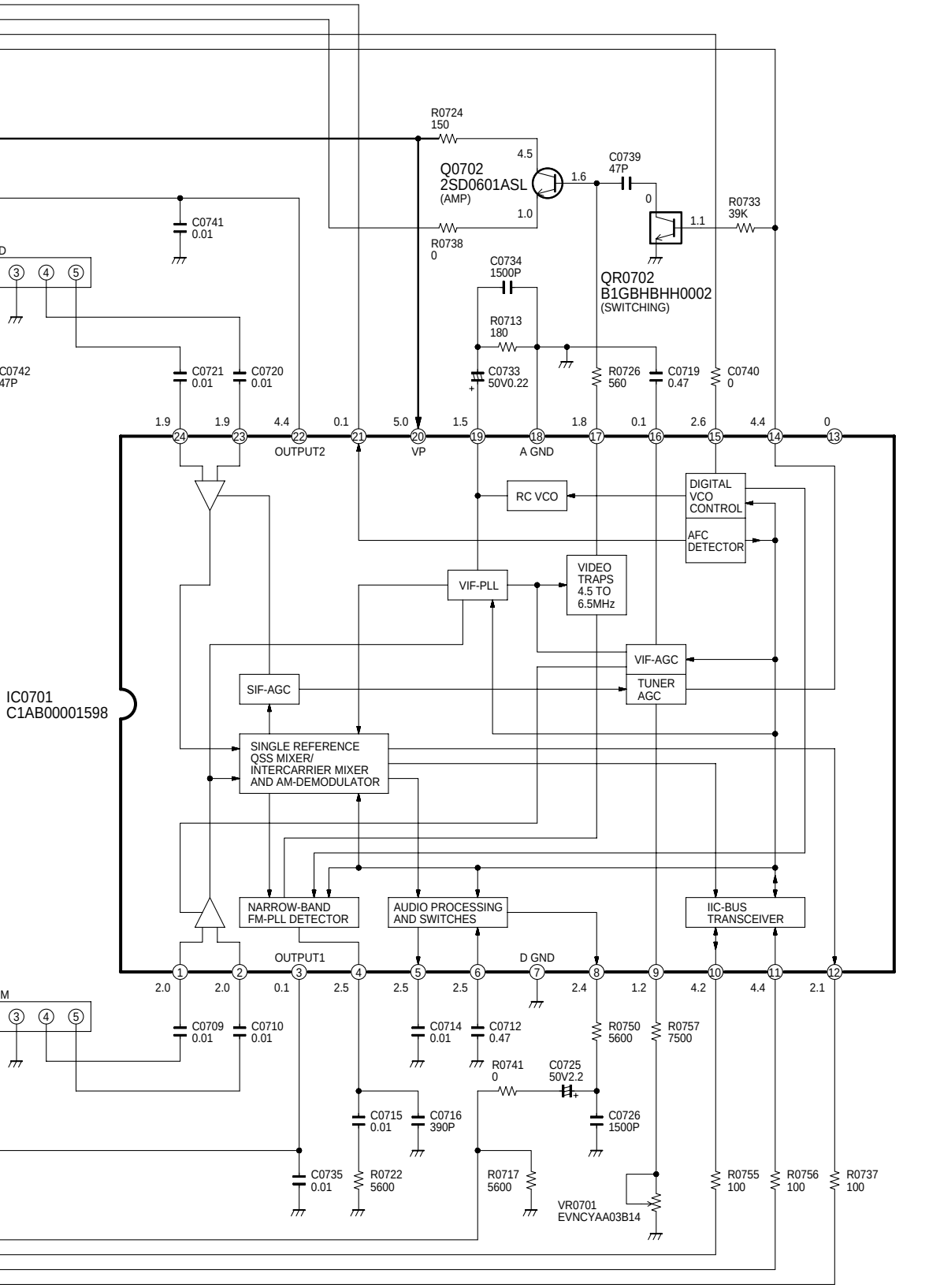
5 | 6 | 7 | 8 | 9

# 17.14. VIF Decoder Schematic Diagram (For DMR-E85HEG)




NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE:DO NOT USE PART NUMBER SHOWN ON THIS DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEAS

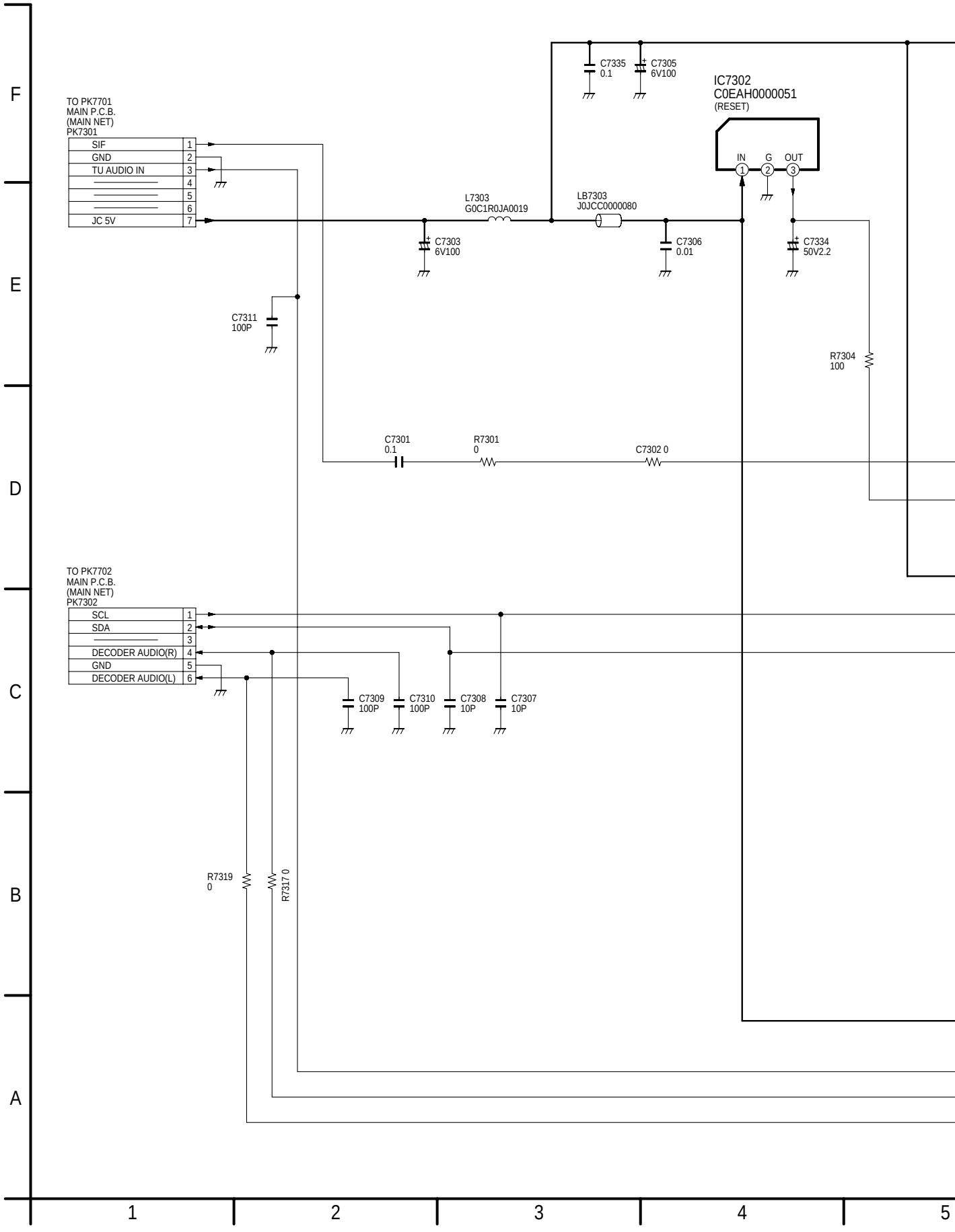


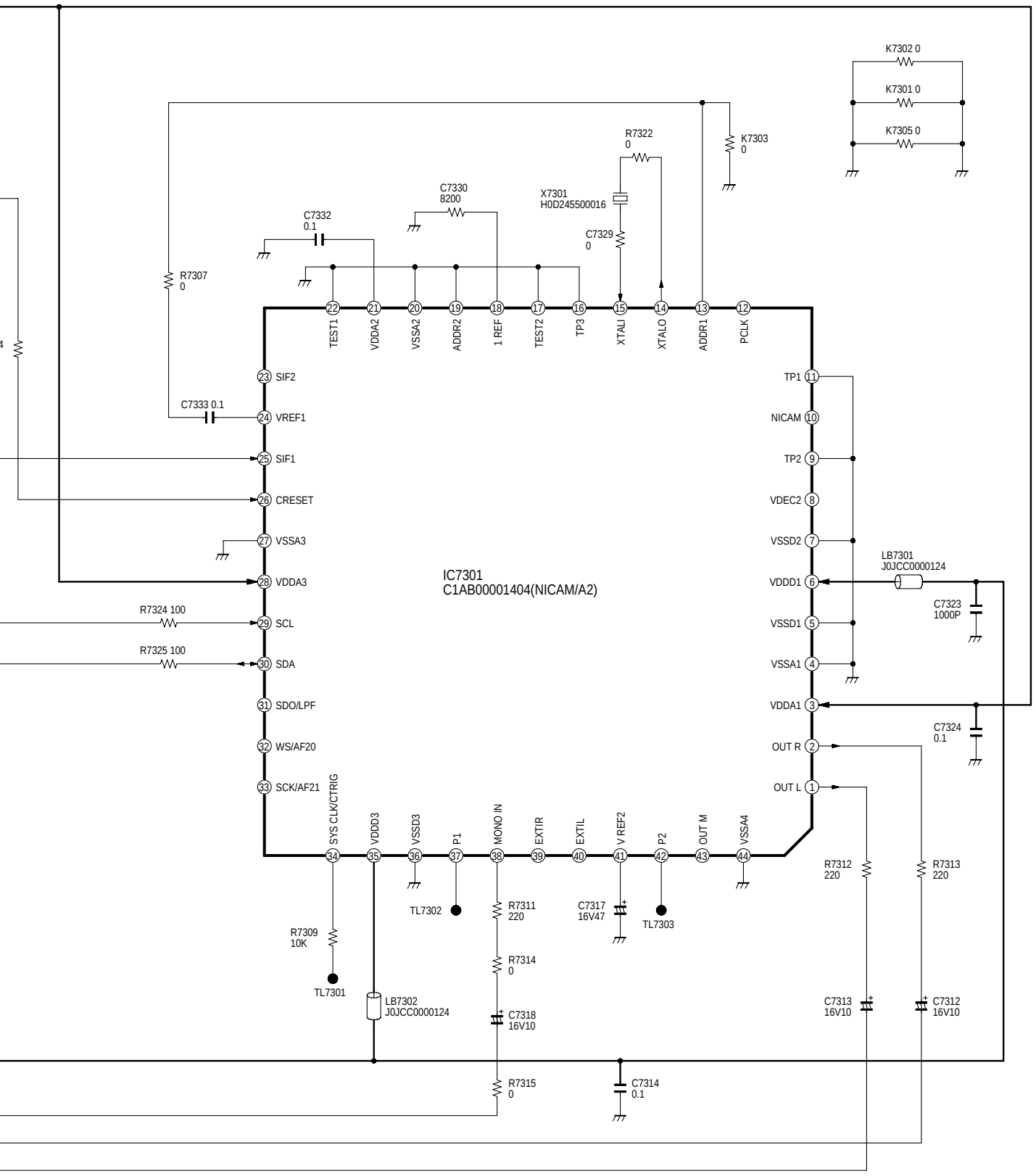

SHOWN ON THIS SCHEMATIC DIAGRAM FOR
ER A PART,PLEASE REFER TO PARTS LIST.

DMR-E85HEG
VIF Decoder
Schematic Diagram

5 | 6 | 7 | 8

# 17.15. Nicam Decoder Schematic Diagram



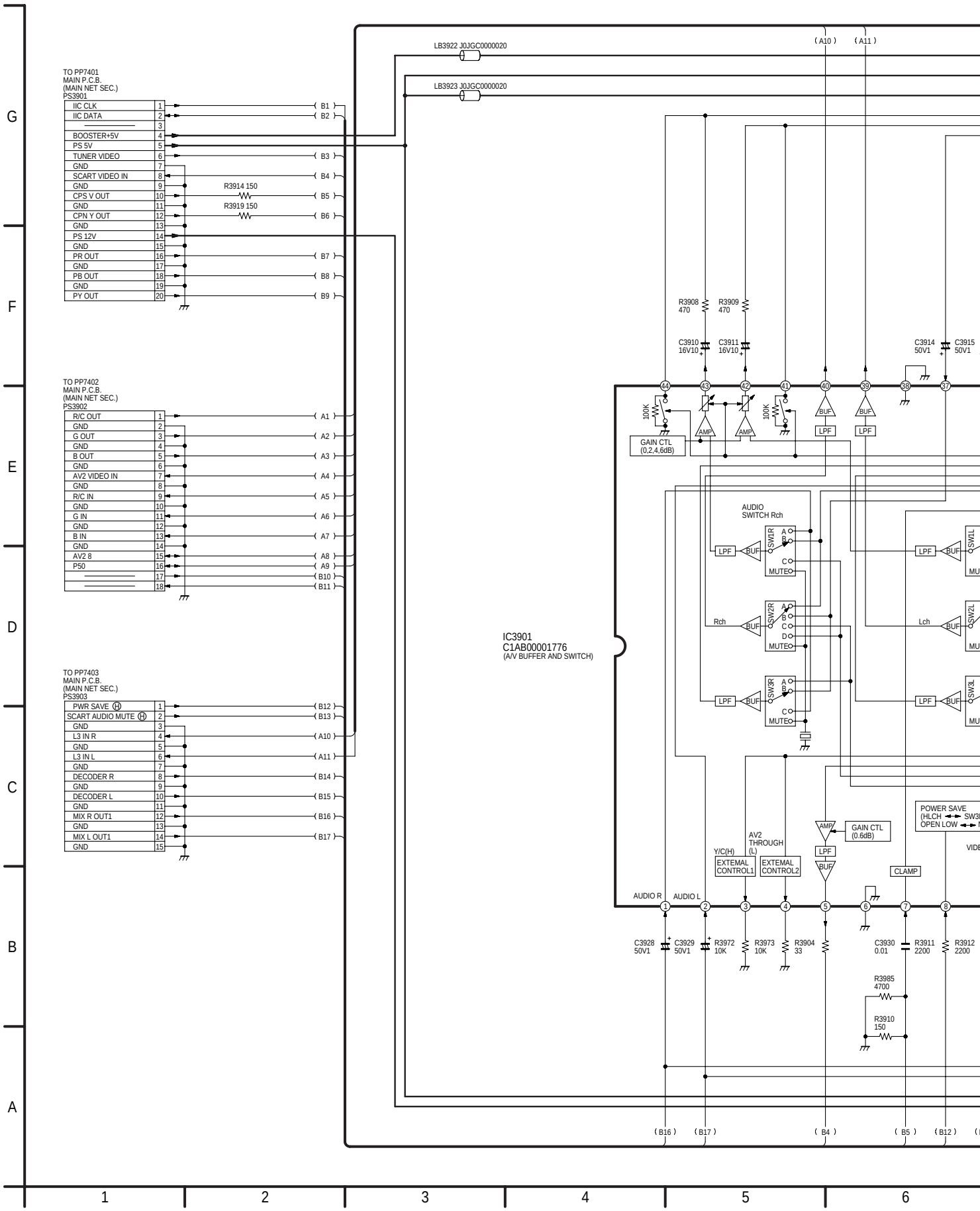


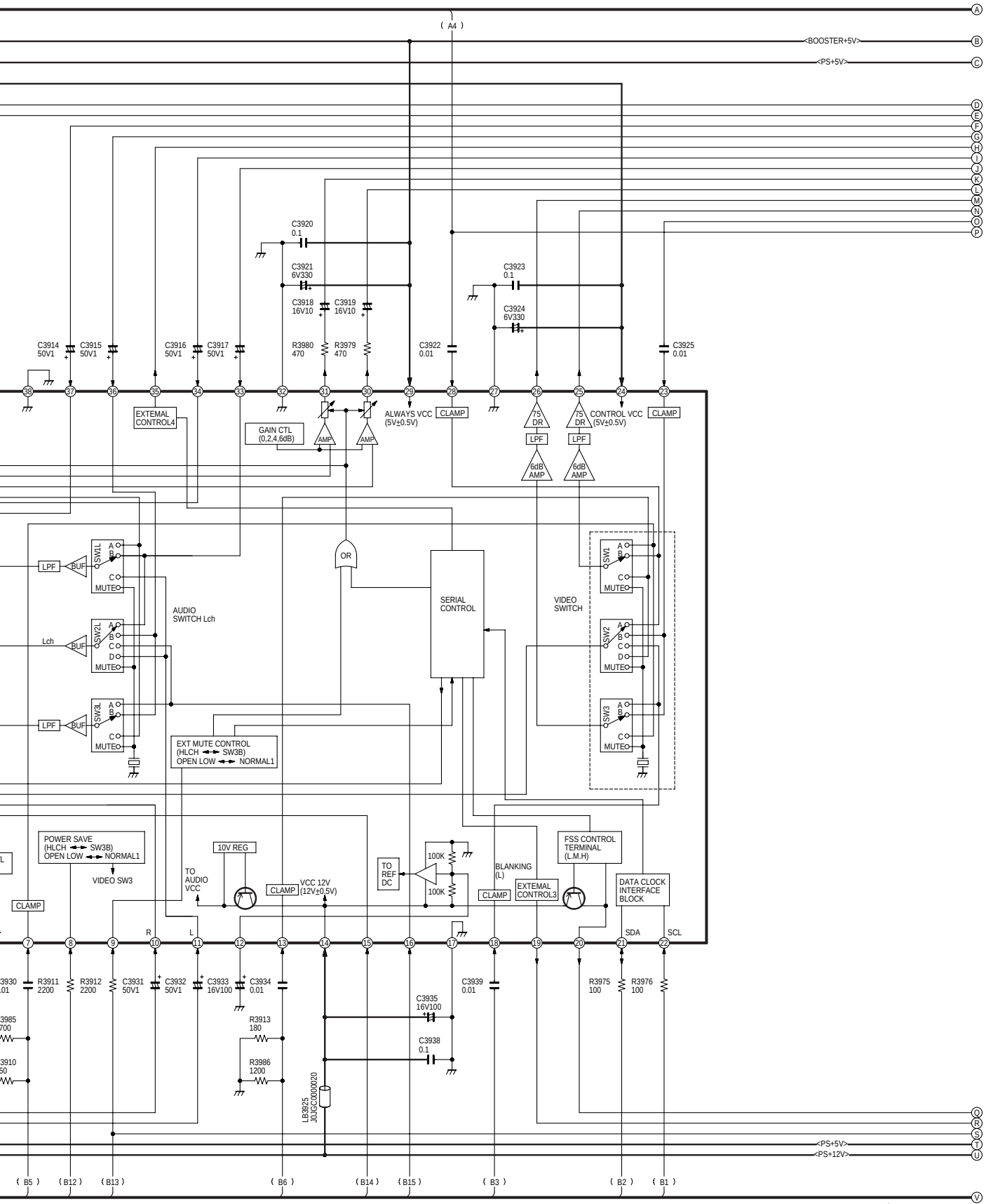

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E85HEB/EG
Nicam Decoder Schematic Diagram

5 | 6 | 7 | 8

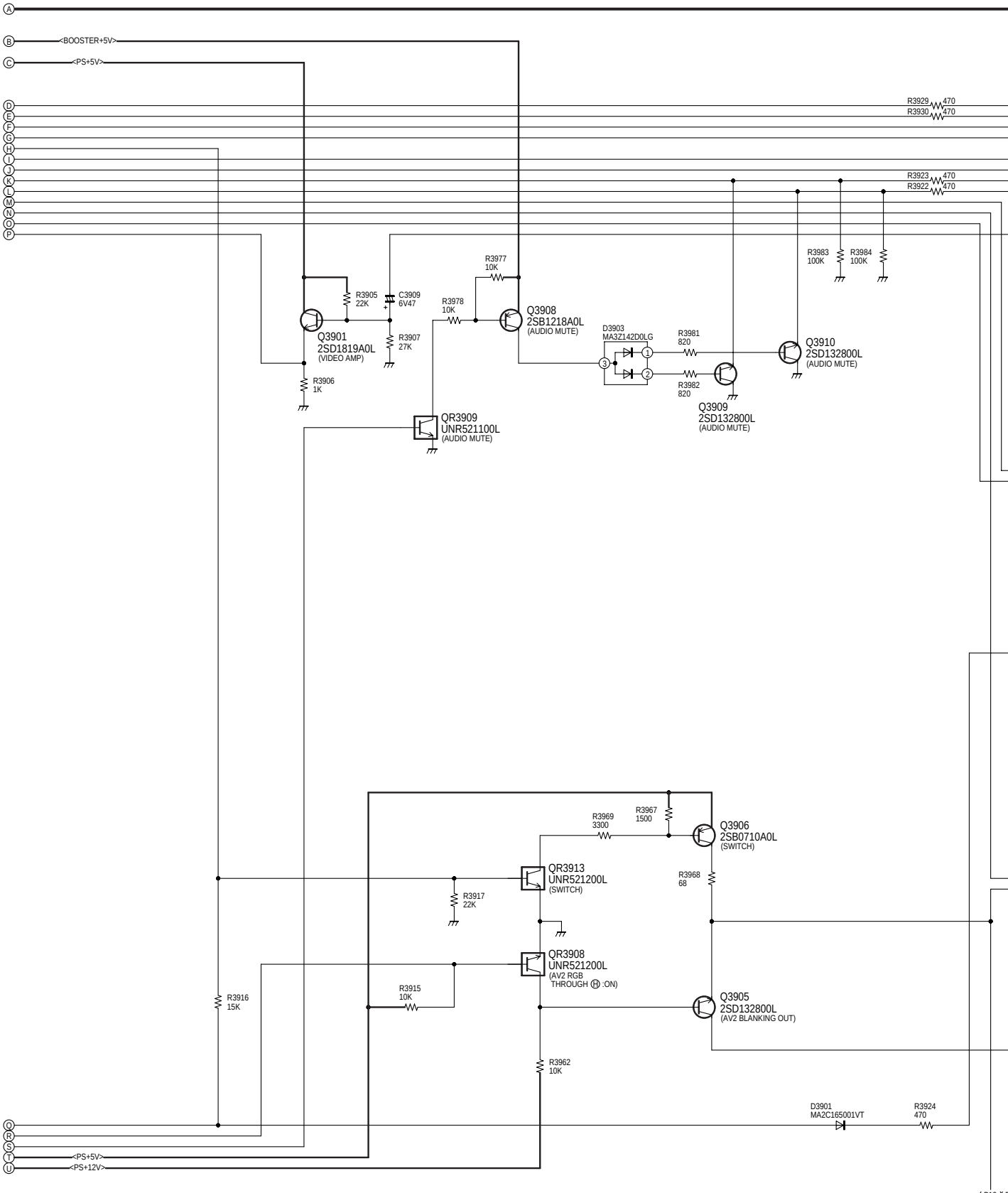
# 17.16. Scart Schematic Diagram





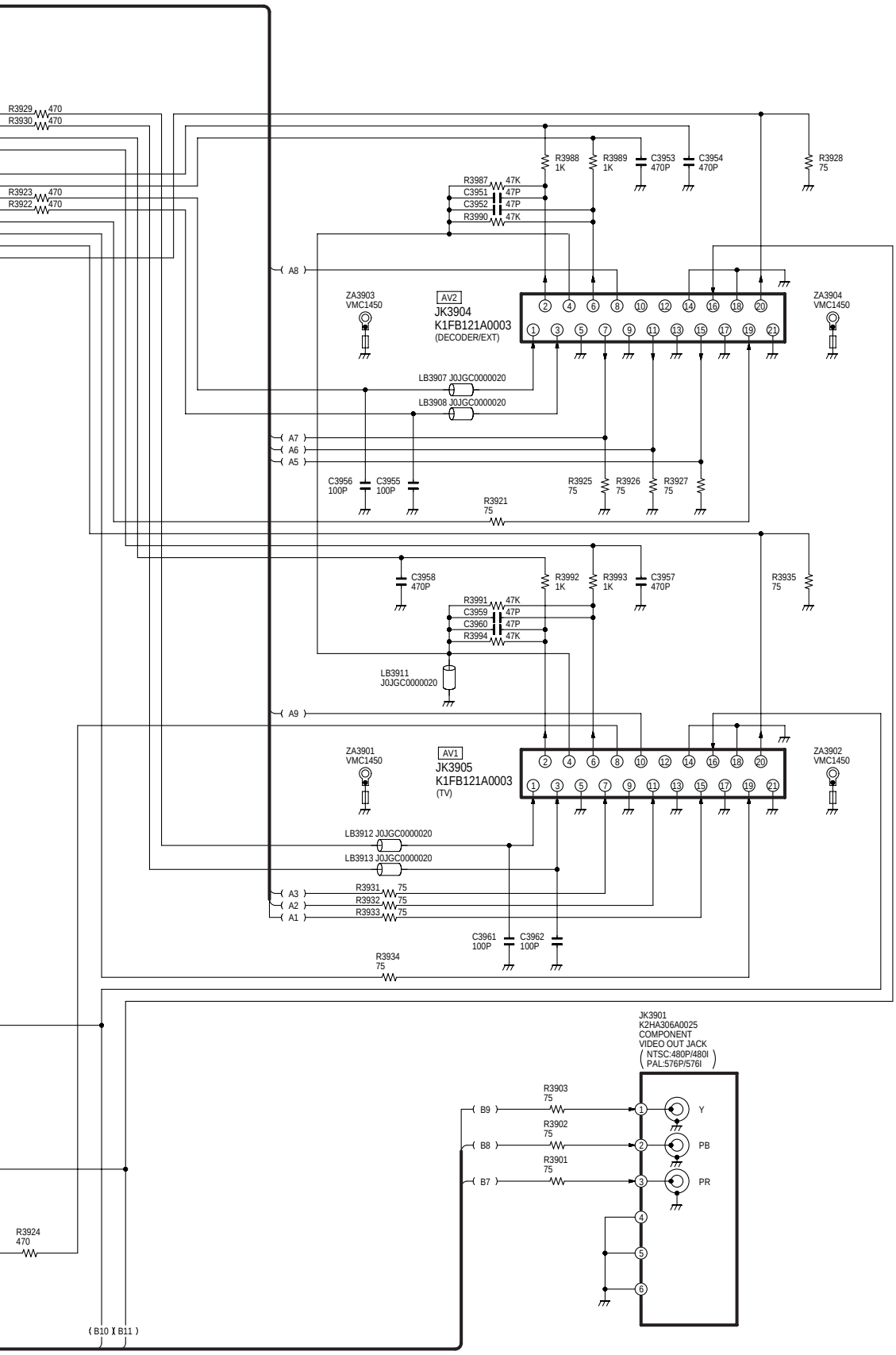

DMR-E85HEB/EG
Scart Schematic Diagram

6 | 7 | 8 | 9 | 10 | 11




DMR-E85HEB/EG
Scart Schematic Diagram

12 | 13 | 14 | 15 | 16 | 17




AV2

| | |
|---|---|
| 1 | AUDIO OUT CH2(R) |
| 2 | AUDIO IN CH2(R) |
| 3 | AUDIO OUT CH1(L) |
| 4 | GND(A) |
| 5 | GND |
| 6 | AUDIO IN CH1(L) |
| 7 | BLUE |
| 8 | AV2 +12V |
| 9 | GND |
| 10 | -/CONTROL |
| 11 | GREEN |
| 12 | -/DATA |
| 13 | GND |
| 14 | GND |
| 15 | RED/C IN |
| 16 | BLANKING |
| 17 | GND |
| 18 | GND |
| 19 | VIDEO OUT |
| 20 | VIDEO IN/Y IN |
| 21 | GND |

AV1

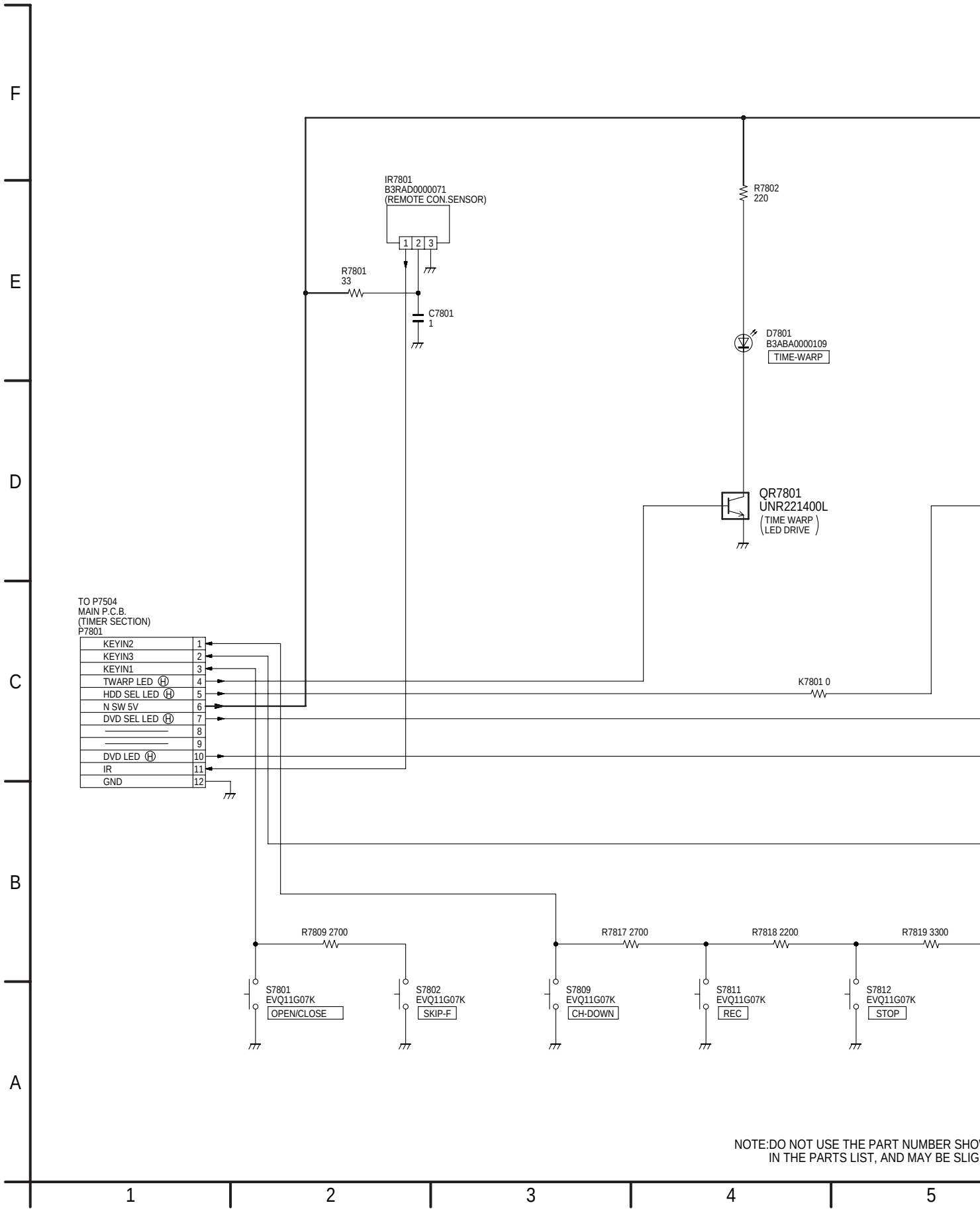
| | |
|---|---|
| 1 | AUDIO OUT CH2(R) |
| 2 | AUDIO IN CH2(R) |
| 3 | AUDIO OUT CH1(L) |
| 4 | GND(A) |
| 5 | GND |
| 6 | AUDIO IN CH1(L) |
| 7 | BLUE |
| 8 | PB +12V |
| 9 | GND |
| 10 | -/CONTROL |
| 11 | GREEN |
| 12 | -/DATA |
| 13 | GND |
| 14 | GND |
| 15 | RED/C OUT |
| 16 | BLANKING |
| 17 | GND |
| 18 | GND |
| 19 | VIDEO OUT/Y OUT |
| 20 | VIDEO IN |
| 21 | GND |

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

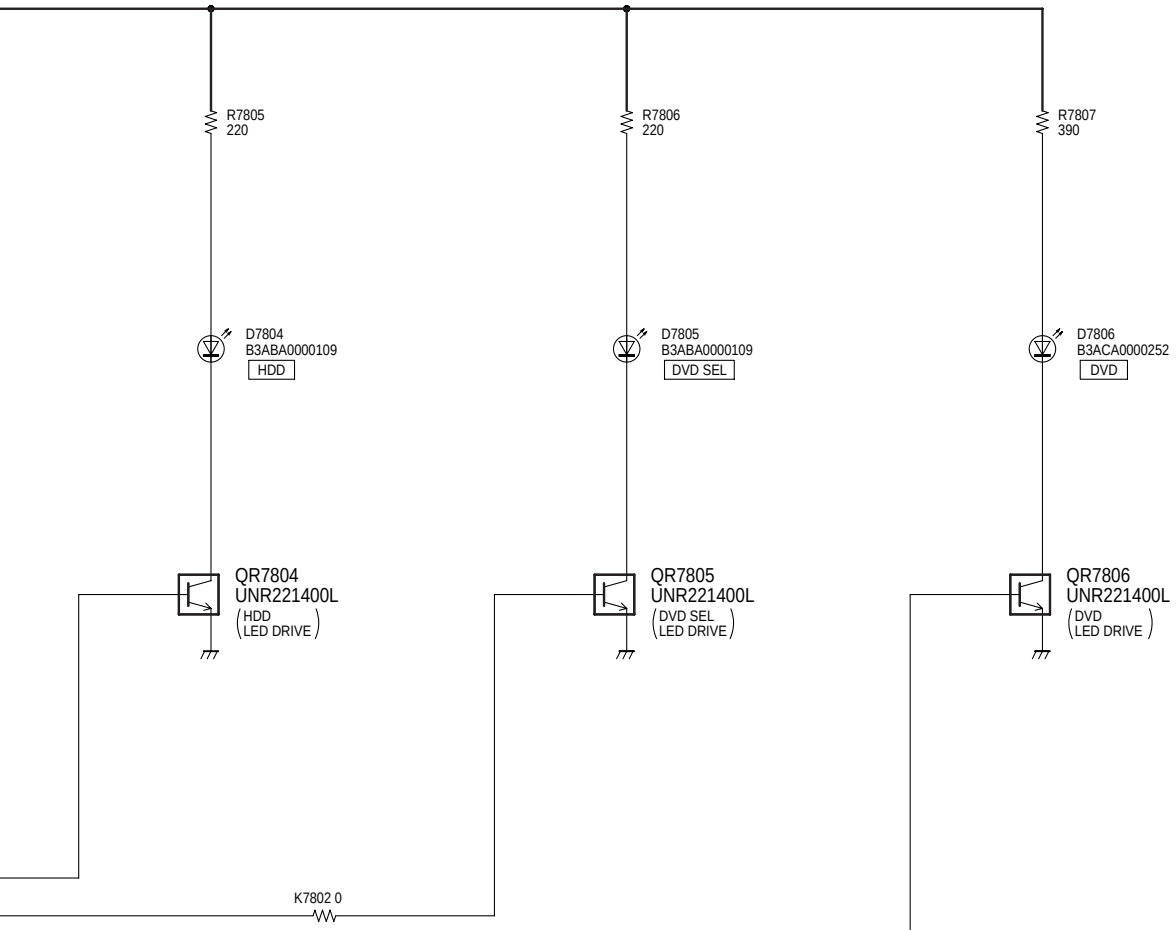
DMR-E85HEB/EG
Scart Schematic Diagram

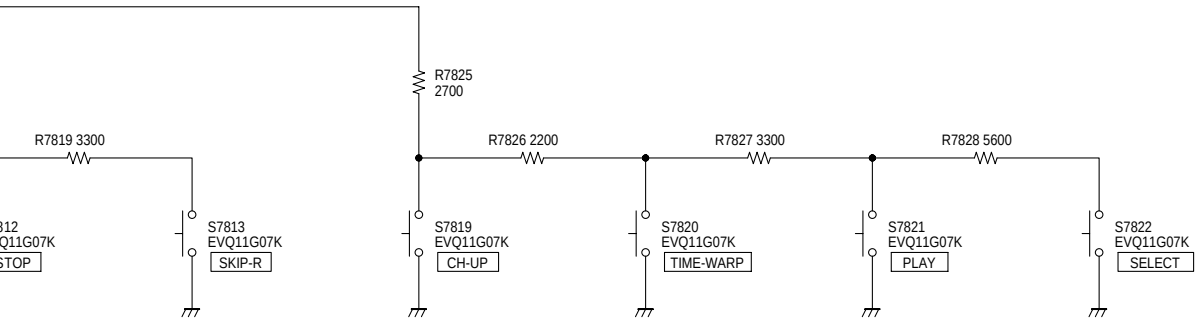
17 | 18 | 19 | 20 | 21 | 22

# 17.17. Front (R) Schematic Diagram




NOTE:DO NOT USE THE PART NUMBER SHO
IN THE PARTS LIST, AND MAY BE SLIG




ART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E85HEB/EG
Front(R) Schematic Diagram

5 | 6 | 7 | 8 | 9

| Ref No. | IC7502 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 61 | 62 | 63 | 64 | | | | | | | | | | | | | | | | |
| REC | -25.5 | -25.5 | -25.5 | -28.8 | | | | | | | | | | | | | | | | |
| PLAY | -25.5 | -25.5 | -25.5 | -28.8 | | | | | | | | | | | | | | | | |
| STOP | -25.6 | -25.5 | -25.6 | -28.9 | | | | | | | | | | | | | | | | |

| Ref No. | IC7503 | | | | | | IC7504 | | | | | | | | | IC7505 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 |
| REC | 5.0 | 5.2 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 4.1 | 4.5 | 4.9 | 4.9 | | 2.3 | 3.5 | 0 | 0 | 0 |
| PLAY | 4.9 | 5.2 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 4.1 | 4.5 | 4.9 | 4.9 | | 2.3 | 3.5 | 0 | 0 | 0 |
| STOP | 4.9 | 5.2 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 4.2 | 4.5 | 4.9 | 4.9 | | 2.3 | 3.5 | 0 | 0 | 0 |

| Ref No. | IC7506 | | | | | | | | IC7508 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 |
| REC | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 13.5 | | 0 | 0 | 0 | 4.9 | 4.9 |
| PLAY | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 13.5 | | 0 | 0 | 0 | 4.9 | 4.9 |
| STOP | 0.4 | 0 | 0 | 0 | 0 | 0 | 0 | 13.6 | | 0 | 0 | 0 | 4.9 | 4.9 |

| Ref No. | Q3006 | | | | Q3007 | | | | Q3009 | | | | Q3010 | | | | Q4004 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| REC | 1.8 | 0 | 1.2 | | 1.8 | 0 | 1.1 | | 1.7 | 0 | 1.0 | | 1.7 | 0 | 1.0 | | 5.2 | -0.8 | 5.2 |
| PLAY | 1.8 | 0 | 1.2 | | 1.8 | 0 | 1.2 | | 1.7 | 0 | 1.0 | | 1.7 | 0 | 1.0 | | 5.2 | -0.8 | 5.2 |
| STOP | 1.8 | 0 | 1.2 | | 1.8 | 0 | 1.2 | | 1.7 | 0 | 1.0 | | 1.7 | 0 | 1.0 | | 5.2 | 5.1 | 4.5 |

| Ref No. | Q4006 | | | | Q4007 | | | | Q4008 | | | | Q4009 | | | | Q7401 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| REC | 0 | 0 | -0.1 | | 0 | 0 | -0.4 | | 0 | 0 | -0.1 | | 0 | 0 | -0.4 | | 0 | 12.1 | 0 |
| PLAY | 0 | 0 | -0.2 | | 0 | 0 | -0.5 | | 0 | 0 | -0.1 | | 0 | 0 | -0.5 | | 0 | 12.1 | 0.1 |
| STOP | 0 | 0 | 0.7 | | 0 | 0 | 0.7 | | 0 | 0 | 0.7 | | 0 | 0 | 0.7 | | 0 | 12.1 | 0.1 |

| Ref No. | Q7402 | | | | Q7404 | | | | Q7405 | | | | Q7406 | | | | Q7503 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| REC | 2.9 | 0 | 2.3 | | 1.3 | 5.0 | 1.9 | | 1.3 | 5.0 | 1.9 | | 1.3 | 5.0 | 1.9 | | 0 | 3.7 | -1.0 |
| PLAY | 2.9 | 0 | 2.3 | | 1.3 | 5.0 | 1.9 | | 1.3 | 5.0 | 1.9 | | 1.3 | 5.0 | 1.9 | | 0 | 3.5 | -1.0 |
| STOP | 2.9 | 0 | 2.2 | | 1.3 | 5.0 | 1.9 | | 1.3 | 5.0 | 1.9 | | 1.3 | 5.0 | 1.9 | | 0 | 3.5 | -1.0 |

| Ref No. | Q7505 | | | | Q7506 | | | | Q7507 | | | | Q7508 | | | | Q7511 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| REC | 2.5 | 0 | 1.9 | | 2.0 | 5.0 | 1.6 | | 2.5 | 0 | 1.9 | | 2.0 | 5.0 | 1.6 | | 0 | 4.9 | 0 |
| PLAY | 2.5 | 0 | 1.9 | | 2.0 | 5.0 | 1.6 | | 2.5 | 0 | 1.9 | | 2.0 | 5.0 | 1.6 | | 0 | 4.9 | 0 |
| STOP | 1.6 | 0 | 0.9 | | 1.1 | 5.0 | 1.6 | | 1.7 | 0 | 1.0 | | 1.1 | 5.0 | 1.6 | | 0 | 4.9 | 0 |

| Ref No. | Q7512 | | | | Q7517 | | | | Q7518 | | | | Q7519 | | | | QR3002 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| REC | 0.4 | 13.5 | 0 | | 0 | 0 | 0.6 | | 0 | 4.3 | 0 | | 0 | 3.5 | 0 | | 0 | 2.8 | 0 |
| PLAY | 0.4 | 13.5 | 0 | | 0 | 0 | 0.6 | | 0 | 4.3 | 0 | | 0 | 3.5 | 0 | | 0 | 2.8 | 0 |
| STOP | 0.4 | 13.6 | 0 | | 0 | 0 | 0.6 | | 0 | 4.3 | 0 | | 0 | 3.5 | 0 | | 0 | 2.8 | 0 |

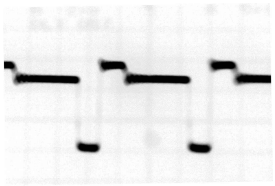
| Ref No. | QR3003 | | | | QR4002 | | | | QR4003 | | | | QR4004 | | | | QR4005 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| REC | 0 | 2.8 | 0 | | 0 | 0 | 4.9 | | 0 | 0 | 2.5 | | 0 | 5.2 | 0 | | 0 | 5.2 | 0 |
| PLAY | 0 | 2.8 | 0 | | 0 | 0 | 4.9 | | 0 | 0 | 2.5 | | 0 | 5.2 | 0 | | 0 | 5.2 | 0 |
| STOP | 0 | 2.8 | 0 | | 0 | 0 | 4.9 | | 0 | 2.9 | 0 | | 0 | 0 | 2.9 | | 0 | 0 | 0 |

| Ref No. | QR4012 | | | | QR7401 | | | | QR7402 | | | | QR7403 | | | | QR7404 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| REC | 5.2 | 0 | 5.1 | | 0 | 3.3 | 0 | | 0 | 4.7 | 0 | | 0 | 0 | 4.7 | | 12.1 | -0.3 | 12.0 |
| PLAY | 5.2 | 0 | 5.1 | | 0 | 3.3 | 0 | | 0 | 4.7 | 0 | | 0 | 0.1 | 4.7 | | 12.1 | 12.1 | 0.1 |
| STOP | 5.2 | 0 | 5.1 | | 0 | 3.3 | 0 | | 0 | 4.7 | 0 | | 0 | 0.1 | 4.7 | | 12.1 | -0.3 | 12.0 |

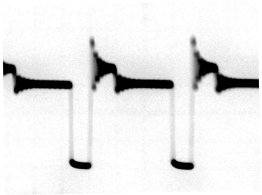
| Ref No. | QR7405 | | | | QR7406 | | | | QR7407 | | | | QR7501 | | | | QR7502 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| REC | 0 | 12.0 | 0 | | 0 | 0.1 | 0 | | 0 | 0 | 0.1 | | 4.9 | 0 | 4.9 | | 0 | 0 | 2.3 |
| PLAY | 0 | 0.1 | 4.9 | | 0 | 0.1 | 0 | | 0 | 0 | 0.1 | | 4.9 | 0 | 4.9 | | 0 | 0 | 2.3 |
| STOP | 0 | 12.0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 4.9 | 0 | 4.9 | | 0 | 0 | 2.3 |

| Ref No. | QR7503 | | | | QR7505 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | E | C | B | | E | C | B | | | | | | | | | | | | | |
| REC | 0 | 1.0 | 0 | | 0 | 4.9 | 0 | | | | | | | | | | | | | |
| PLAY | 0 | 1.0 | 0 | | 0 | 4.9 | 0 | | | | | | | | | | | | | |
| STOP | 0 | 1.0 | 0 | | 0 | 4.9 | 0 | | | | | | | | | | | | | |

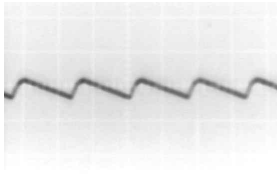
| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| REC | 2.1 | 1.3 | 0 | 0 | 1.3 | 2.1 | 0 | 0 | 1.3 | 0 | 0 | 0 | 1.3 | 0 | 3.5 | 0 | 0 | 1.5 | 5.0 | 0 |
| PLAY | 2.1 | 1.3 | 0 | 0 | 1.3 | 2.1 | 0 | 0 | 1.3 | 0 | 0 | 0 | 1.3 | 0 | 3.5 | 0 | 0 | 1.5 | 5.0 | 0 |
| STOP | 2.1 | 0.9 | 0 | 0 | 1.3 | 2.1 | 0 | 0 | 1.3 | 0 | 0 | 0 | 1.3 | 0 | 3.5 | 0 | 0 | 1.5 | 5.0 | 0 |
| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| REC | 5.0 | 1.2 | 3.5 | 0 | 3.5 | 1.2 | 4.9 | 0 | 4.9 | 1.0 | 4.9 | 0 | 4.9 | 1.0 | 5.0 | 0 | 4.9 | 3.4 | 4.9 | 0 |
| PLAY | 5.0 | 1.2 | 3.5 | 0 | 3.5 | 1.2 | 4.9 | 0 | 4.9 | 1.0 | 4.9 | 0 | 4.9 | 1.0 | 5.0 | 0 | 4.9 | 3.2 | 4.9 | 0 |
| STOP | 5.0 | 1.2 | 3.5 | 0 | 3.5 | 1.2 | 4.9 | 0 | 4.9 | 1.0 | 4.9 | 0 | 4.9 | 1.0 | 5.0 | 0 | 4.9 | 3.4 | 4.9 | 0 |
| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| REC | 0.1 | 3.5 | 0 | 0 | 3.5 | 0 | 3.2 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 |
| PLAY | 0.1 | 3.5 | 0 | 0 | 3.5 | 0 | 3.2 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 |
| STOP | 0.1 | 3.5 | 0 | 0 | 3.5 | 0 | 3.2 | 2.5 | 0 | 2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 0 |
| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| REC | 0 | 2.5 | 0 | 0 | 0.3 | 0 | 0 | 5.0 | 5.0 | 2.5 | 0 | 1.7 | 0 | 3.5 | 3.3 | 3.5 | 0 | 1.5 | 5.0 | 1.5 |
| PLAY | 0 | 2.5 | 0 | 0 | 0.3 | 0 | 0 | 5.0 | 5.0 | 2.5 | 0 | 1.7 | 0 | 3.5 | 3.3 | 3.5 | 0 | 1.5 | 5.0 | 1.5 |
| STOP | 0 | 2.5 | 0 | 0 | 0.3 | 0 | 0 | 5.0 | 5.0 | 0 | 0 | 1.7 | 0 | 3.5 | 3.3 | 3.5 | 0 | 1.5 | 5.0 | 1.5 |
| Ref No. | P9001 | | | | | | | | | | | | | | | | | | | |
| MODE | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | | | | | | | | | | | | |
| REC | 5.7 | 1.2 | 5.0 | 1.5 | 5.7 | 1.2 | 5.7 | 1.2 | | | | | | | | | | | | |
| PLAY | 5.7 | 1.2 | 5.0 | 1.5 | 5.7 | 1.2 | 5.7 | 1.2 | | | | | | | | | | | | |
| STOP | 5.7 | 1.2 | 5.0 | 1.5 | 5.7 | 1.2 | 5.7 | 1.2 | | | | | | | | | | | | |



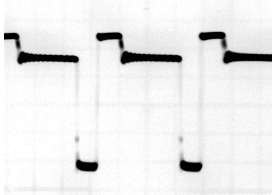
T001-B1 STOP
60Vp-p (5 $\mu$ sec.div)



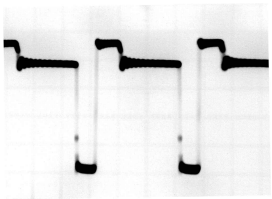
T001-P1 STOP
500Vp-p (5 $\mu$ sec.div)



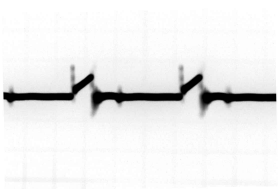
T001-P2 STOP
20Vp-p (5m sec.div)



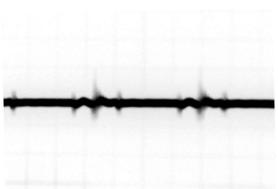
T001-S3 STOP
50Vp-p (5 $\mu$ sec.div)



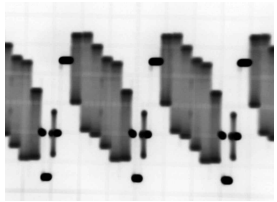
T001-S2,S4 STOP
24Vp-p (5 $\mu$ sec.div)



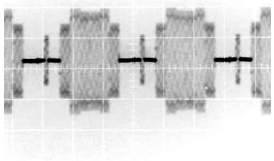
IC001-2 STOP
1.0Vp-p (5 $\mu$ sec.div)



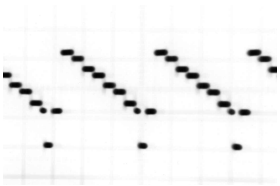
IC001-4 STOP
1.0Vp-p (5 $\mu$ sec.div)



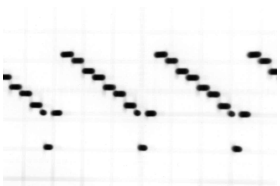
P7402-2 REC/PLAY
1.0Vp-p (20 $\mu$ sec.div)



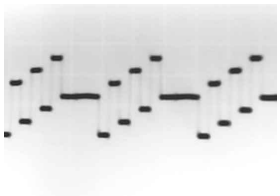
P7402-18 REC/PLAY
0.8Vp-p (20 $\mu$ sec.div)



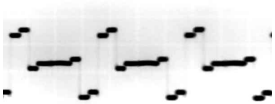
P7402-22 REC/PLAY
1.0Vp-p (20 $\mu$ sec.div)



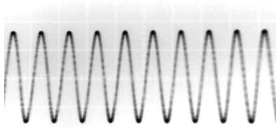
P7402-26 REC/PLAY
1.0Vp-p (20 $\mu$ sec.div)



P7402-30 REC/PLAY
0.6Vp-p (20 $\mu$ sec.div)

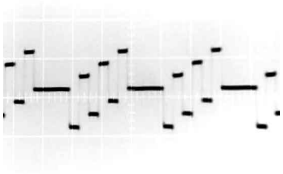


P7402-34 REC/PLAY
0.6Vp-p (20 $\mu$ sec.div)

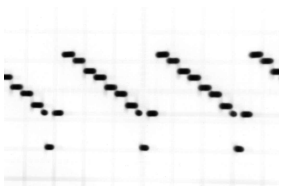


P7402-48,50 REC/PLAY
0.8Vp-p (1m sec.div)

PP7401-16 REC/PLAY
1.2Vp-p (20 $\mu$ sec.div)



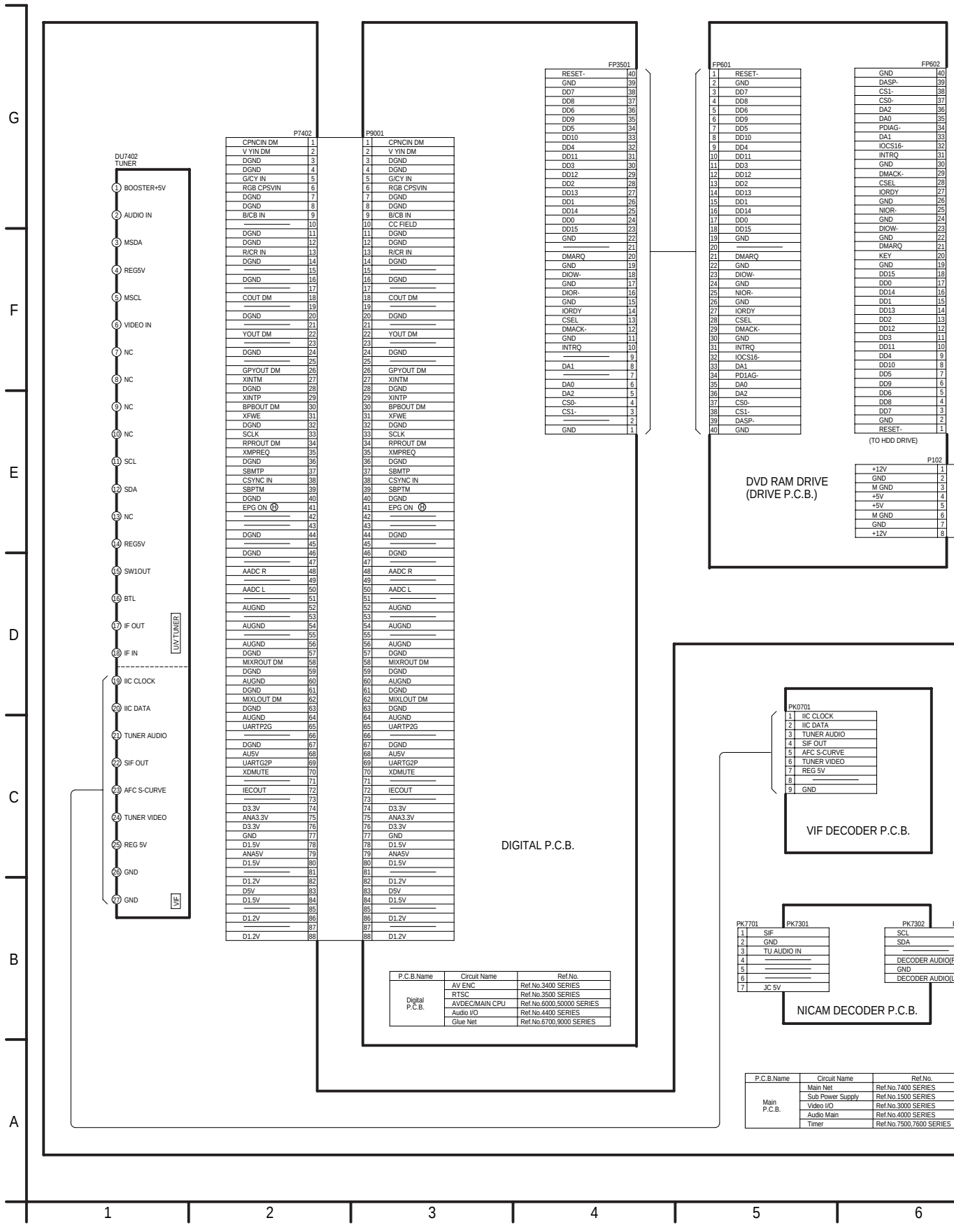
PP7401-18 REC/PLAY
1.2Vp-p (20 $\mu$ sec.div)

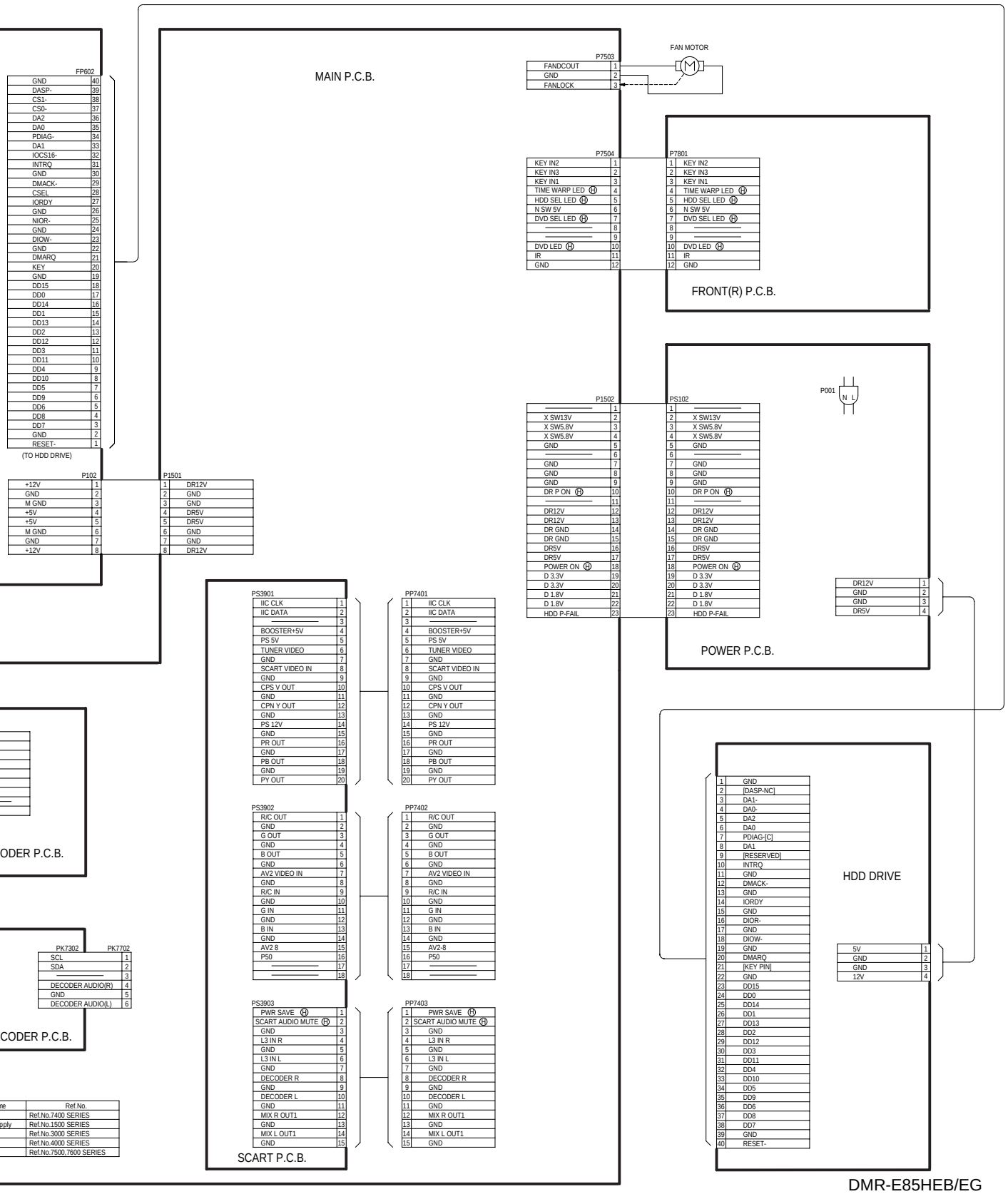


PP7401-20 REC/PLAY
2.0Vp-p (20 $\mu$ sec.div)

# 17 Schematic Diagram

## 17.1. Interconnection Schematic Diagram

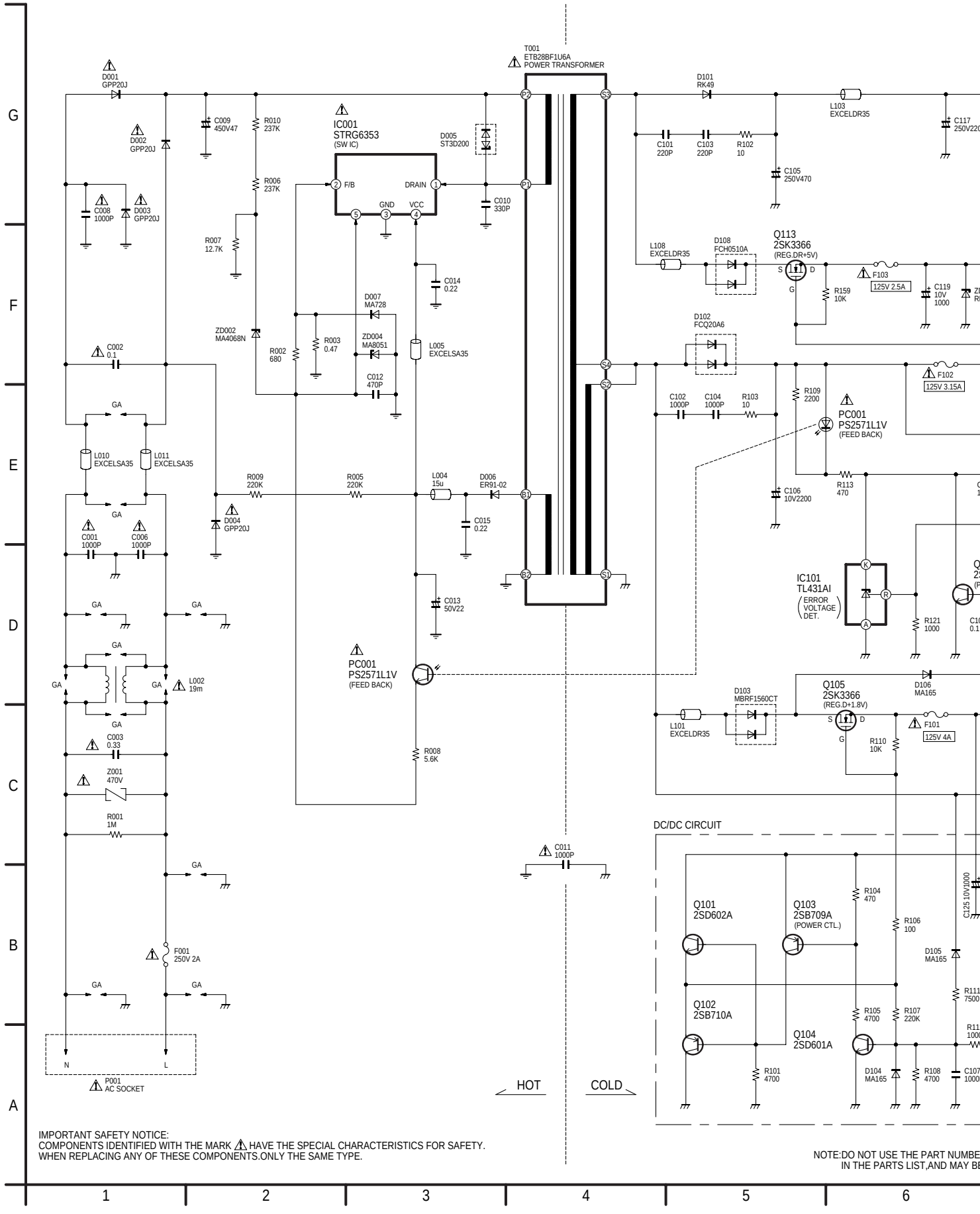





DMR-E85HEB/EG
Interconnection
Schematic Diagram

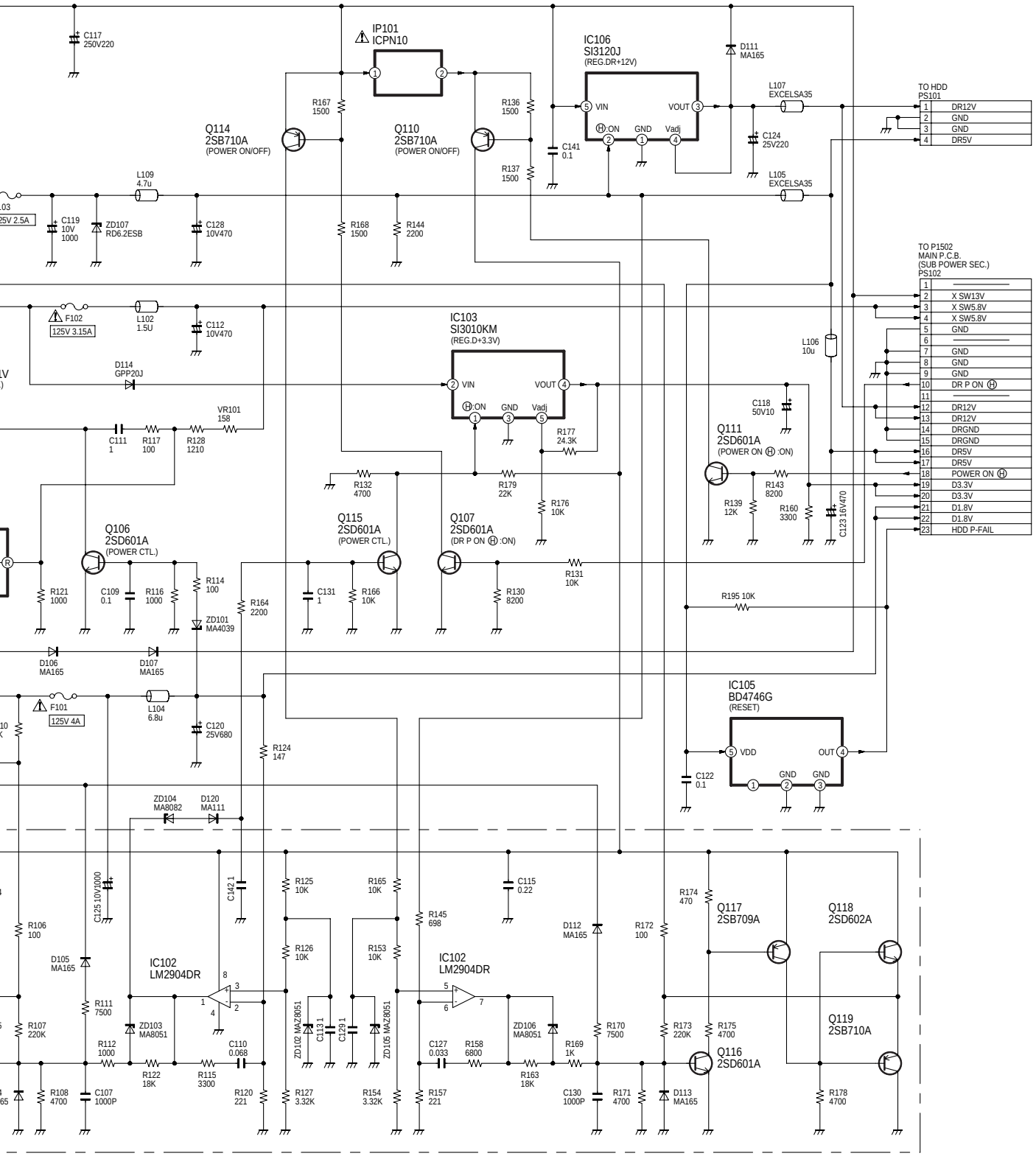
6 | 7 | 8 | 9 | 10 | 11

# 17.2. Main Power Supply Schematic Diagram




IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:DO NOT USE THE PART NUMBE
IN THE PARTS LIST,AND MAY BE

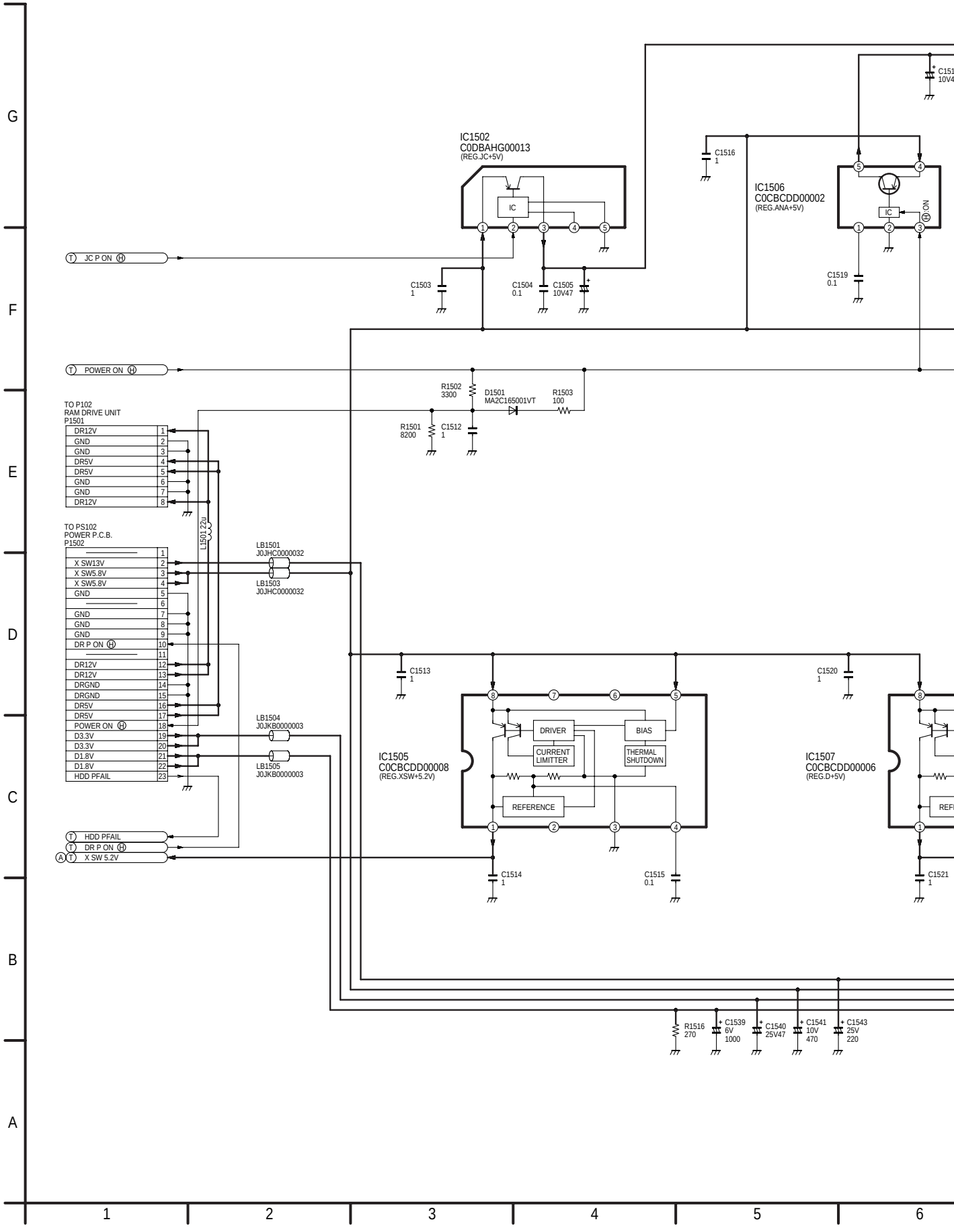



USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
ARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

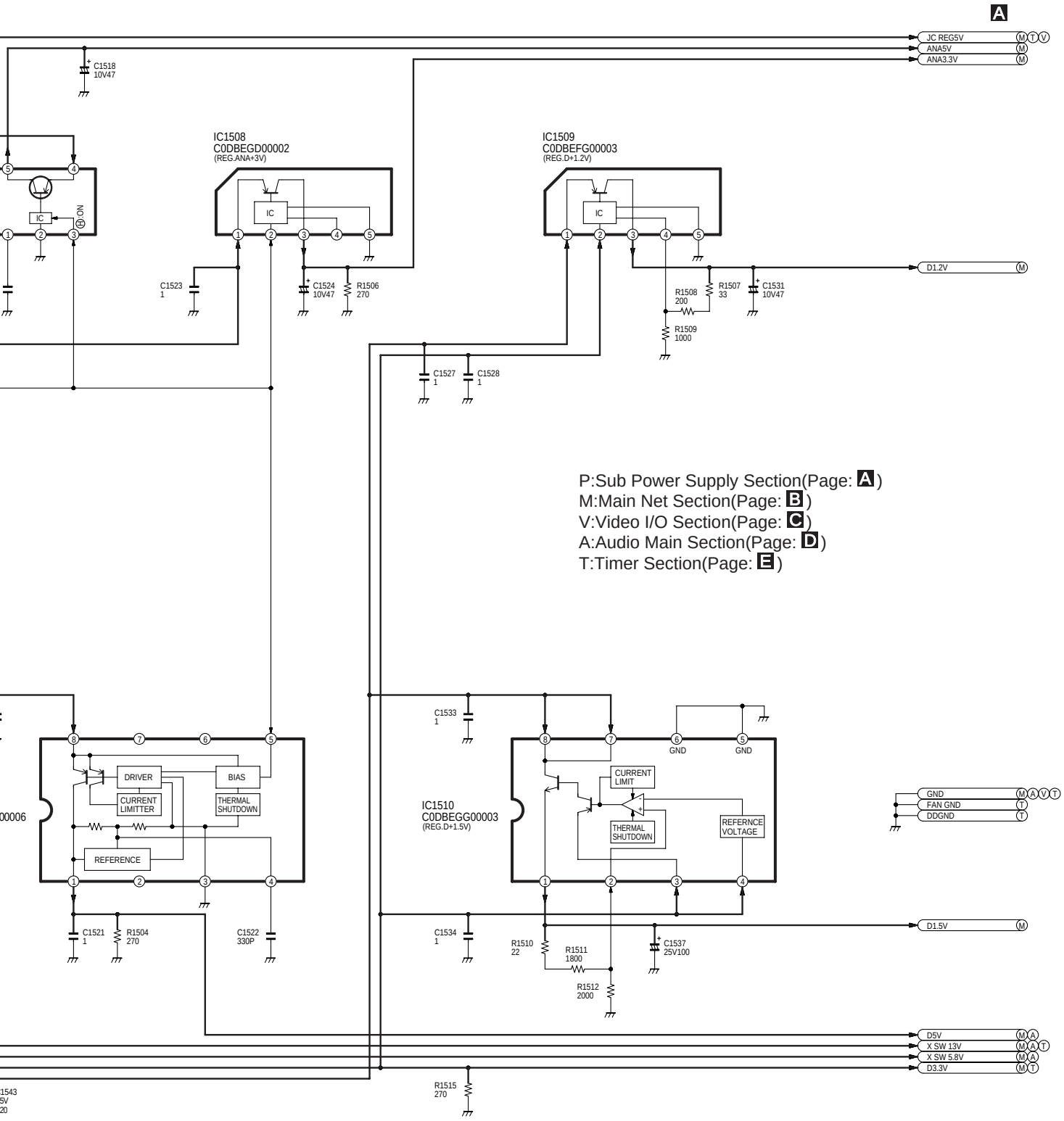
DMR-E85HEB/EG
Main Power Supply
Schematic Diagram

6 | 7 | 8 | 9 | 10 | 11

# 17.3. Sub Power Supply Section (Main P.C.B. (1/5)) Schematic Diagram (P)



# (P)

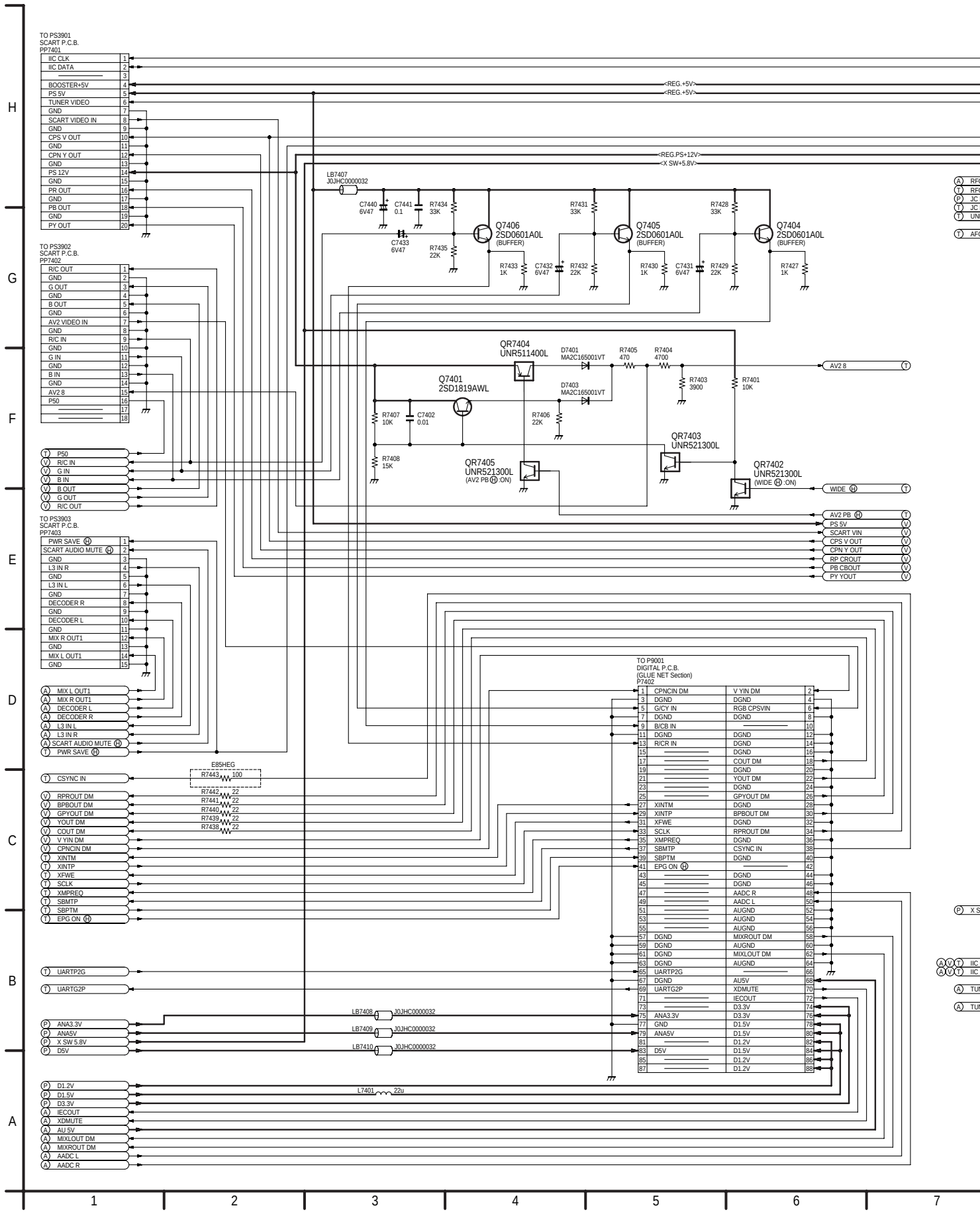


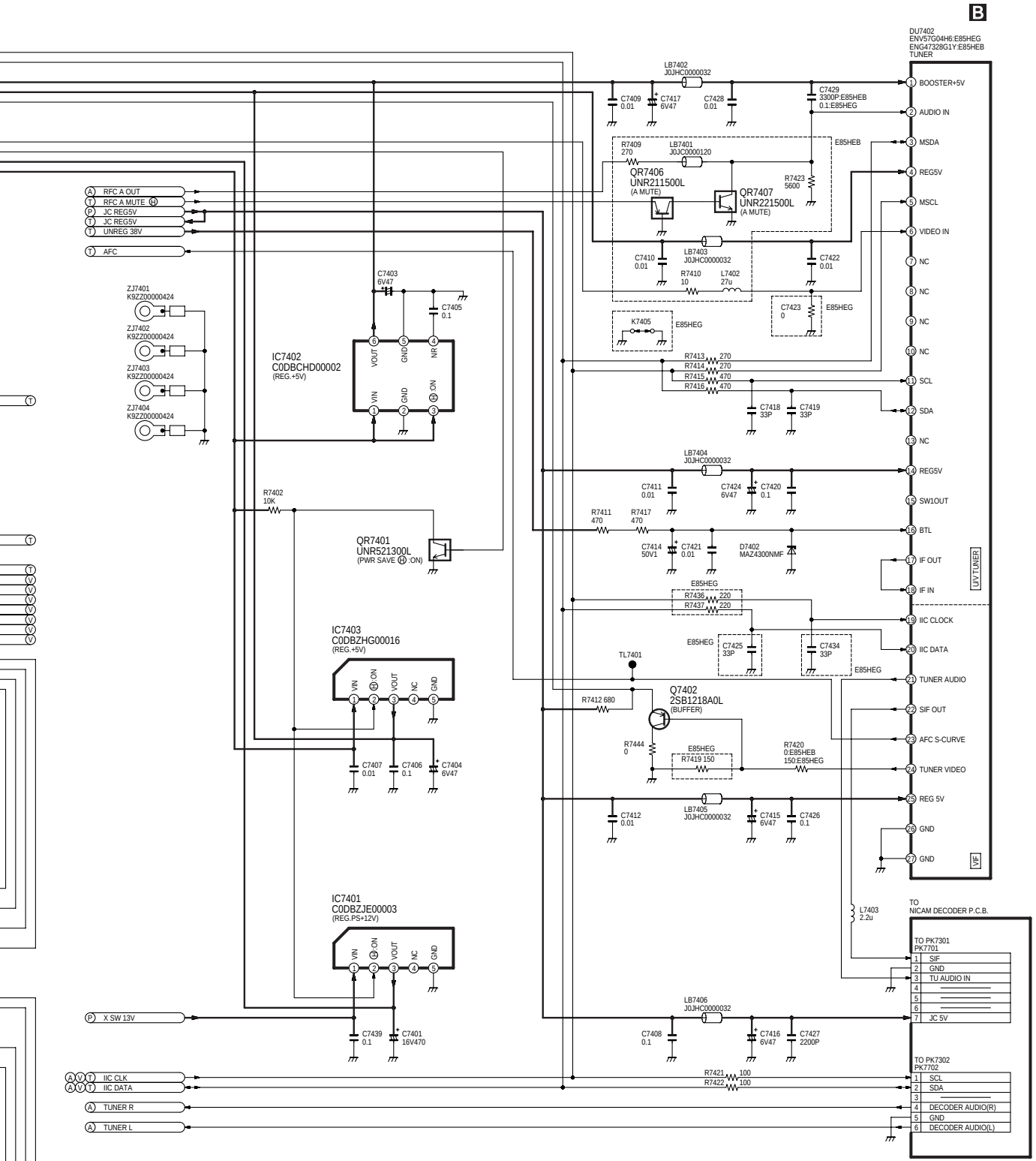

DMR-E85HEB/EG
Sub Power Supply Section
(Main P.C.B.(1/5))
Schematic Diagram(P)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

6 | 7 | 8 | 9 | 10 | 11

# 17.4. Main Net Section (Main P.C.B. (2/5)) Schematic Diagram (M)






P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E85HEB/EG
Main Net Section
(Main P.C.B.(2/5))
Schematic Diagram(M)

7 | 8 | 9 | 10 | 11 | 12 | 13